THE

HISTORY

OF THE

Belles Lettres,

ANDOF

de

ARTS and SCIENCES,

FROM THEIR

Origin, down to this present Time.

BEING AN

INTRODUCTION

TOTHE

Study of the Belles Lettres.

Translated from the French of M. JUVENAL DE CARLENCAS.

With a compleat Alphabetical INDEX.

LONDON,

Printed for JAMES HODGES, at the Looking-glass, overagainst St. Magnus Church, London-Bridge. 1741.

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THE

AUTHOR'S PREFACE



HAT can be more entertaining, and at the same Time more engaging, than that History where we see all the painful Steps and Labours of the

Mind of Man trac'd out in the Invention, Progression, and Perfection of the Arts and A 3 Sciences? Sciences? There it is we observe the weak, low, and languid Estate the Mind is often reduced to, by its Speculations and Researches; the Darkness which sometimes overspreads it; and again the faint and glimmering Rays which break out athwart the Cloud; but which, if carefully collected, often diffuse a strong Light over all the Soul.

This History of the Sciences comprehends all the Ages of the World, and all and every People who have known how to make a proper Use of their Reason. It makes us observe the Causes and Occasions of good and bad Taste; the almost infinite Variety and Differences of Geniuses; how sew of them agree in the just Idea of Things, of Goodness, Truth, &c. and what different Roads they take to attain and arrive at the same End.

But as many look upon that as useless, which they don't know; and because the History of the Sciences is, perhaps, less suited to the Humour and Capacity of some, than that of Nations and Empires, it may indeed, in their Opinion, pass for an idle Amusement. A fine Discourse, they'll say, charms us; a well conducted Poem affects us; and we are sensibly touched by a fine Picture: But what does it signify to know that Demosthenes excelled in Eloquence, Homer in Poesy, Apelles

I have not enlarged upon the Hints or Thoughts of others; it may, perhaps, be thought, I have straitened them too much. I have generally named my Authorities, without loading the Margin with too many Quotations. When a Thing is well said, I don't endeavour to say it better. I have endeavoured to avoid that foolish Affectation of some, who by a Variety of Expressions endeavour to surpass that Original which they propose to imitate.

Some may, perhaps, find Fault that I have omitted a great many Authors, who ought to have been taken Notice of in this Essay: But they will forgive me when they consider, that the principal Design is, to make some historical Reslections upon the Origin and Progress of the Sciences, and a few Examples have been sufficient to six the Dates.

There's enough said, to put those upon the Way, who are inclined to consider and peruse the different Pieces we have of the History of Learning. I am only asraid of being blam'd for Mistakes I may have fallen into, and for bold Conjectures, which nevertheless I have only given as such. I confess I may very possibly have wandered in these new Roads I have trac'd out

xii The AUTHOR's PREFACE.

to my felf; and therefore shall not be surprised to be set right by any one who has travelled and knows the Way better. It is to be hoped, some learned and able Writer will undertake a Subject, which is capable of being so much enlarged and embellished.

Mihi sat erit specimen tanti monstrasse laboris.



GRAM-



A

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GRAMMAR, LANGUAGES.



HE Knowledge of Languages opens the Entry to the Sciences. The Orientals, the Inventors of the Arts, fatisfied themselves with speaking well their Mother-Tongue, with-

out giving themselves the trouble to learn strange Languages. The ancient Egyptians, in their happy Ages, had no Ambition to push themselves abroad; they found at home wherewithall to satisfy all their Wants; and being constant Observers of their Maxims, they carefully avoided the introducing among them the Language and Manners of their Neighbours, whom they look'd upon as Barbarians; and indeed they were less polite than they.

I except their Neighbours the Hebrews, who with a noble Simplicity were very polite: but they were a People in a special manner separated from all others; they abhorr'd the Customs of the Gentiles, and they despised their Studies,

R

where every thing favour'd of Idolatry. The Book which God had put in their hands, was to them instead of all other Books, and contain'd all that they ought and wanted to know.

guage,

The Language in which the Book is written, is brew Lan-perfectly conform to the Character of that People. It is fimple in its Words, all derived from a few Roots, without any Composition; it is rich, folid, and clear in its Expressions, which give distinct Ideas, and form sensible Images: and, which feems to me very remarkable, this Language fuffer'd no Change at all from Moses down to the time of the Babylonish Captivity (a): Then, that is, during the feventy Years that the Captivity lasted, the Hebrew ceas'd to be the common Language of the Jews, who Syriack, or substituted in its room the Syriack or Chaldaick.

Chaldaick. Since their Return from the Captivity, there have been none but the Learned, who understood Hebrew; befides, they abandon'd the use of the ancient Hebrew Letters (which the Samaritans kept) and took those of the Chaldeans, which we improperly call Hebrew Letters.

The Christians preserv'd the Body of the Scriptures intire, which they read in the vulgar Tongue, even in the publick Service: for the Lectures were all in Greek over all the East. and in Latin over all the West. The Higher Syria nevertheless, where they made use of the Syriack Language in their Offices, may be excepted; as may also the Country of Thebes, or Thebais, where they spoke nothing but Egyptian (b). In these primitive times, the Faithful separated themselves equally from the Pagans and the Jews; so that they took no care of

⁽a) Fleury Mœurs des Israel. Art. 15. (b) Ibid.Mœurs des Chrêt. Art. 30.

of studying the Hebrew, which they left to the Rabbi's; yet the Providence of God raised up Doctors formetimes, who applied themselves to the Study of the holy Language, for the common Benefit of the Church.

About the beginning of the third Century, the laborious Origen undertook that immense Work of explaining the Holy Scripture, and making it more easily understood, by comparing the different Versions with the original Text; and, about the end of the fourth, St. Ferome made from the Hebrew that famous The Vul-Translation, known at present by the Name of gar Ver-The Vulgate Version.

The Ruin of the Roman Empire, and the Devastations made by the Northern Nations, put a stop to the Progress which the Hebrew Language was like to make in the West. Ignorance took fo deep Root from that time, that tis but about two hundred Years fince the Stu-

dy of that Language was reviv'd.

In Germany, the most learned of the Protestant Divines gave great Application to it dur-

ing the fixteenth Century.

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Forster was Professor of Hebrew at Wittenberg, Pellican at Zurich, Nicander at Isfeld, &c. But of all of them, he who acquired the greatest Reputation, was Sebastian Munster, whom they call'd the German Eldras, for his excellent Version of the Bible.

At the same time they studied the Hebrew in France, with the same Ardor and Success. King Francis I. that illustrious Restorer of the Sciences, establish'd Professors at Paris to teach the Languages, Anno 1529. Vatable; Bertin, Genebrard, and several others, distinguished themselves in that Profession, and made From the School of Vaexcellent Scholats. table, B 2

table came Salignac, Cavalier, Mercier: And Raphelengius, Disciple of Mercier, gave the Flemish a Taste and Inclination for the Hebrew Language; in which Andreas Mæsius, that learned Critick, became a great Proficient.

As the Humor of the Spaniards naturally dispos'd them to a Study which requires great Assiduity and Patience; so they made good Progress, and had several learned Masters of the Hebrew Language. I shall only make mention of Arrias Montanus, who, by Order of Philip II. made the samous Edition of the Com-

plutensian Bible.

Dead Languages are not eafily learned but by Principles; the Rabbi's(c) made a Grammar for the Holy Language, and taught it by Rules. About a thousand Years after the Hebrew was no more a living and common Language, certain Criticks of the School of Tiberias, call'd by us Massoretes, invented the Point-Vowels: These Grammarians, of but a mean Capacity. fancied to fix the Pronunciation of the Hebrew Text by these Points; tho' probably they must at that time have been ignorant of the ancient and true Pronunciation. Upon the Revival of the Belles Lettres, the Learned adopted the Use of the Point-Vowels, which they found had been established a long time; and strove who should best abridge and make easy a Study which does not want its Difficulties; hence that Number of Grammars, which most of the Professors and Learned we have named composed; which were very soon followed by the Grammars of Buxtorf, Erpenius, and Keckerman, much more exact than the former.

According to the Advances they made in this formerly unknown Region, they made

new

Point-Vowels first used.

⁽a) Rabbi Kimchi, Elias Levita, &c.

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new Discoveries. To speak only of the French, Samuel Bochart, about the middle of the last Century, furprized the learned World, by the curious Refearches and profound Erudition found and admired in his Phaleg and Canaan; and long after him, P. Thomassin made his Universal Glossary, where he gives great Proof of his great Skill in the Oriental Languages; he makes them all derived from the Hebrew, as their common Source: hence that observable Affinity and Genius amongst them. Chaldaick comes nearest to the Hebrew, and it is in this Language that the Paraphrases which the Jews print with their Bibles, and their Commentaries upon the Books of Scripture, are written.

The first Grammar of the Chaldaick Language is that of Munster. Postellus and Erpenius have given us Grammars of the Arabick; and Raphelengius an Arabick Dictionary.

One of the most famous Professors of the Syriack Language was Mr. Herbelot, Author of the Bibliotheque Orientale. He had written this Book in Arabick, but afterwards translated it into French, to make it the more useful.

The Hebrew is so difficult, that 'tis understood but by a few of the Learned. To encourage the Study of this Mother-Language, the Points should be cut off, which, like Briers and Thorns, serve only to choke up the way that leads to it. These Points or Accents are useless, now that the Question is, not to speak, but to read and understand it. And all the Difficulty lies here, viz. Whether this Language admits of Vowels? Or if the Points of the Massoretes were invented to supply the want of them?

B 3

Monf.

Monf. Masclef, Canon of Amiens, has undertaken the first Part of the Question, against the Points; and, fince the Year 1717, is the Author of a new and very convenient Method. On the other hand, Father Guarin, a Benedic-

no more made use of.

The Points tin, has declared for the Point-Vowels. But, notwithstanding his Zeal in their Defence, most part of the Students of Hebrew do now reject them as good for nothing, but to embarrass and retard the Study of the facred Books.

I fay nothing of the Phanician, nor of the Ethiopian Language. They are not enough

known.

Greek Lang.

The History of the obscure and fabulous Ages tells us, that Cadmus, Son of Agenor King of Phanicia, brought into Greece the Invention of Writing, about 260 Years before the taking of Troy. It is easy to believe, that that Prince would introduce the Phanician Language into that Country, which mixing with that which the Natives, the Descendants of Hellen spoke, form'd at last the Greek Language. Its different Dialects arose very near the same way in process of time.

Dialects Eolick.

Several Clans of the Greeks went in quest of Ionick and new Habitations: The Ionians and Eolians paffed over into Asia, and establish'd themselves in these two Countries, which from them have been fince called Ionia and Eolia (d). Language of their Posterity took easily a Tincture of that of the ancient Affaticks. came the Ionian and Eolian Dialects.

Dorick.

The Dorick feems to be more ancient. It must certainly come from Dorus, the second Son of Hellen.

We should have a very false Notion of the Greek Dialects, if we took them for so many grois

gross and corrupt Ways of speaking, like those used in our Provinces; every Dialect was a perfect Idiom, which had its particular Beauties. Herodote made use of the Ionian, Thucydide of the Attick: What a Purity of Style, Attick. and Elegance in these two Historians! We must acknowledge however, that the Attick Dialect excells the others very far: Why? Because by Atticism is meant a Discourse, which seems to be dictated by Nature itself; where there is nothing, but what's agreeable to taste, of an easy Grace, and so seasoned as to be felt; in a word, where every thing is well said (e)

This Purity and Politeness of Language, peculiar to Athens, was there so generally diffused, that Theophraste, who is justly commended for his Sweetness of Style, was known to be a Stranger by a simple Fruit-woman, by a Je ne sçay quoi, or something, one can't tell what,

amiss in his way of speaking.

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(f) The Greek Language did not continue always confin'd to Greece. Carneades, Critolaus, and Diogenes, being fent from Athens to Rome upon publick Affairs, inspired the Roman Youth with a great Desire of learning the Greek. The most illustrious Romans began to retain and keep about them the most learned Men of Greece. Scipio, Lælius, and Furius set them the Example (g). And the Passion they had for that new Learning became so strong, that Cato the elder was afraid, lest the Youth should give up the Glory of Arms and Doing well, for the Honour of Knowing and Speaking well (b).

B 4 From

Cic. de opt. gen. Orat. n. 13.

(b) Plutarch. Life of Cato.

⁽e) Ut bene dicere, id sit Attice dicere.

⁽f) Cicero de claris Oratoribus.

⁽g) Cicero de Oratore, lib. 2. n. 155.

From the first Africanus to Cicero, that is, almost fourscore Years, the Romans gave great Application to the Study of the Greek Language. Thus Greece, when in Subjection to the Romans, in its turn subjected its Conquerors (i). It became the School of the fine Arts, and preserv'd its Reputation a long time under

the Emperors.

Nevertheless, the Greek Language degenerated infenfibly; they who taught it, and who were called Grammarians, left very often the more folid, to run after the frivolous; and being busied about hard Questions, they cultivated and minded nothing at length but an obscure fort of Erudition. Bad Taste is contagious; it infected the Romans also. We must not wonder then, if under the Empire of Adrian, People could hear a Ptolomeus Chennus, and if they could have in esteem a Leander Nicanor, a Diogenian, and a Fason: The most polite Princes then treated these Grammarians favourably; they were so equitable, as not to charge the Art they profess'd with their Defects; befides, the Study of the Greek Language was at that time the Foundation of all other Studies, even for Princes; Telephus and Hephastion taught the Emperor Lucius Verus Greek.

There was a good deal to be learn'd from the Writings of some of them: Without the Banquet of Athenœus, one could not go far into he Greek Antiquities (1). Grammar grew worse as the Greek Empire declined, and lost of its Lustre. Nevertheless the Grammarians, whose chief Business was the Explanation of good Authors.

⁽i) Horat. Ep. 1. lib. 2. Græcia capta ferum victorem cæpit, &c.

⁽k) Capitolinus, vit. L. Veri.

⁽¹⁾ He liv'd in the time of the Emperor Commodus.

Authors preserved the Belles Lettres: The Scholiasts fixed the Tradition of the ancient Usages and Customs; they illustrated the Texts, whether it be by the different Readings, or by the Citations of many Authors which are lost fince. We may refer to these latter Times the Invention of the Accents, so useful for understanding well the Greek Writers: Whoever would refer them to the higher Ages, might be easily resulted, both from the Inscriptions

and ancient Manuscripts.

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We are now infenfibly arrived at the Recovery of the Greek Language in the West, where it had been altogether unknown for About the End of the 14th many Ages. Century, Emanuel Chrysolore, who had been fent by Joannes Paleologus to defire the Affistance of the Princes of Europe against Bajazet, who was then befieging Constantinople, fix'd his Habitation in Italy after the Death of his Master, and professed the Greek Language first at Venice, next at Florence, and last at Pavia, under the Protection of Duke John Gallas (m). From his School came Franciscus Philelphus a Spaniard, Ambrose a Monk of Colchester in England, Francis Barbara, &c. Afterwards, when Mahomet the 2d took Constantinople, all the Greeks who lov'd the fine Arts took Refuge in Italy, and were receiv'd there with Marks of Distinction by the famous Laurence of Medicis.

Lascaris, after he had put in Order the fine Library of Florence, came to France; and at Fountainbleau laid the Foundations of the King's Library; and at Paris that of the Royal College. Budæus, his illustrious Disciple, who had contributed to those two Establishments,

⁽m) Thevot, Vies des hommes illustres. lib. 2. ch. 45.

tablishments, communicated to Francis I. the Taste of the Greek Learning.

It is not to be imagin'd, with what Rapidity and Success this new Study ran over the Kingdom. It was very foon honoured, and Perfons of the greatest Quality took Delight in it; Henry de Mesmes (n), not only understood the Greek, but could repeat all Homer (o). They had not as yet abandon'd and given up to Pedants a Language, which alone was capable to inspire true Politeness; that unjust Prejudice, as I believe, was owing to the Abuse that some who were concern'd in Teaching made of their Profession, spoil'd, it may be, by the bad Example of the Grammarians we have spoke of, and by the Solitude of their Closets, which feparating them from the Conversation of the World, gave them a certain Rusticity, which

render'd them contemptible. Nevertheless. tho' uncapable of perceiving the Beauties that were too fine for them, they have labour'd usefully for those that came after them, and fav'd them the Trouble of tedious Refearches: Some of them have given excellent Editions of good Authors, and published Works before unknown. Of the Number of these, in the 16th Century, are, Johannes Fambucus, the first Editor of Aristenetas, Eunapius, Hesychius, &c. and Arnold of Lens, who, according to Monsieur de Thou (p), recovered from Dust and Destruction, Fosephus against Appion. Others of 'em have illustrated the Writings of the Ancients with Notes, and given faithful enough Translations of them in Latin.

fhort,

⁽n) He liv'd about the Middle of the 16th Century.

⁽o) Rollin Maniere d'enseigner les Belles Lettres, Tom.

⁽p) Thou. Hift. fui temporis, an. 1561.

short, some of them have composed Grammars with great Exactness. Such are, Clenard,

Gretzer, Voffius, Weller, &c.

Let us do Justice to our own Nation and the Age we live in. Those of our Learned, who have applied themselves to the Greek Grammar, have added to that Study both more Criticism and more Taste; without confining themselves to the Letter, they have penetrated into the Spirit of their Authors: They have laid hold upon, and taken Notice of, both what is beautiful and solid in them; their strong or sublime Thoughts; their natural or delicate Turns; nothing has escap'd them.

They have likewise extended their Labours on the Greek of the middle and last Age; and have not neglected, but by Work as painful as useful have examin'd, that rude, uncouth Latin, which Barbarity substituted in place of the Language of the ancient Romans (r). Let us stop here, and consider this Language in all

its Purity.

The Latin, as all other Languages, rude Latin; and harsh in the Beginning, was a forming slowly for several Ages, and did not arrive at Persection till the Time of Scipio and Lalius.

Terence, charm'd with the frequent Perusal of Menander, was the first who dar'd to introduce the Graces of the Greek into the Roman Language. Cicero gave it more Harmony and Numbers; and the Poets who flourish'd under Augustus put the last Hand to it, by enriching it with the Spoils of Pindar and Homer. This is the proper Interval, to which

we

⁽r) M. du Cange dans ses deux glossaires.

we ought to confine the Roman Urbanity, that Flower of Expression and Politeness, as peculiar to the Town of Rome, as the Atticism was to Athens, which distinguish'd the Citizen from the Stranger; in which Cicero excell'd, but Titus Livius wanted, who was found Fault with for a certain provincial Air (s) and Turn

in his Style.

From the Reign of Tiberius the Latin Language began to be corrupted: It loft that natural and fimple Air, in which lay its Beauty, to take up with fomething, I don't know what, affected and childish: They would needs have Wit, and too much; and because Tafte was fallen low, they thought they did a great deal when they ornamented their Diction and Discourse with Figures, and stuff'd it full with trifling Punctilio's. 'Twas the young Folks who gave the Run to and encouraged that Sort of Mode; but the most fufficient and best Judges esteem'd still the Language of the Ancients, and the Grammarians fet themselves to work to explain them.

In the Time of Claudius, Asconius Pedianus render'd himself famous by his Commentaries upon Cicero. Sulpicius Apollinaris, whom they place under Antoninus Pius, illustrated Terence (t). Evantius labour'd upon the same Poet (u). Donatus and Servius illustrated Virgil by their learned Notes (x). Others, that they might profit by their reading, contented themselves by making Excerptions from good Authors,

(s) Quintil. Inft. orat. lib. 8. c. 1.

(t) Calvis. Chron. an. 163. (u) Baillet Gram. c. 622.

⁽x) They put the first under Constantius, and the second under Honorius.

Authors, and publishing their Collections; fuch as are the Nottes Atticæ of Aulus Gellius, and the Saturnalia of Macrobius. There were fome of them, who keeping more strictly within the Bounds of their Profession, wrote upon the different Parts of Grammar.

Censorinus, the most learned Man of his Age. wrote a Book concerning the Accents, which Priscian cites. Verrius Flaccus had before written a Treatise of the Signification of Words; and in the much later Times Nonius Marcellus wrote one concerning their Propriety. Contemporary of the last, after having abridged Flaccus, has been abridged himself by Paulus Diaconus. Thus, the Merit of these Writers consisted only, very often, in copying one another; which has fo confounded them, that the Name of the Author of Instructions upon Grammar, is at present a Problem for the Learned; some of them attribute these Five Books to Charifius, others to Diomedes.

When the Latin ceas'd to be a vulgar Language, they fet about different Ways of teaching it, especially in the last two Centuries; some taught it by Use and Exercise: That is the Way Montagne was taught it (y), and which hath been renew'd in our own Time with Success, in Sight of all Paris.

It was believ'd for a long Time, that there was no Way better than to employ all the Latin Words in one continued Discourse. It was upon this Plan that Comenius made his Janua Linguarum, a Book, which, after it had been the Darling of all Europe, could not preserve its Reputation. Others, by introducing the Fables, fancy'd to abridge a Study, which

by that Means they made more difficult: At length the greatest Numbers declar'd for the Grammars call'd, The Methods, where the Precepts were first given in Latin, and afterwards in French.

The principal Defign of studying the dead Languages, is, to understand the Authors who have written in them. But the more ancient the Authors are, they are the harder to be understood: You must acquaint yourself with the Genius of your Author, adjust his Principles and Conclusions; you must consider him with Regard to the Circumstances of the Time and Place he liv'd in; and give Attention to the Manners and Customs which prevail'd, and were in Use then, and remark his Allusions, founded upon certain Facts not commonly known. With this View the Grammarians of the 16th Century apply'd themselves to illustrate the Latin Authors; some of them by long Commentaries, others by fhort Notes. In Italy, Corrado, Curiot, Aldus Manucius, Urfinus and Ricoboni distinguish'd themselves in this Kind of Learning; as did the Germans also, as Amberbachius, Betuleus, Rhenanus, Ghelenus, Glareanus and Fabricius. French were not the last in applying to that Study; and we may venture to fay, without being call'd too partial, that Turnebus, Lambinus, Josephus Scaliger and Muretus, went a greater Length than the Foreigners.

The Antiquaries, whose Task was greater, made a separate Class; and they in a manner divided the Labour among them. Nicolas de Grouchi treated of the Roman Comitia or Assemblies, as did Carolus Sigonius; and made a personal Operal of a Point of Learning

personal Quarrel of a Point of Learning.

Measures, and explain'd and described the Triclinium of the Ancients. Hubertus Goltzius, Antonius Augustinus, and Fulvius Ursinus, wrote of and illustrated the Medals; others took the Inscriptions for their Part of the Task, and

others the Mythology.

The Ignorance of the preceding Ages render'd these Studies necessary: But some of them overdid in these Matters. They confin'd and strain'd to express themselves in the purest Latin they could, and to read all the Authors, to show that they had read a great deal; and they consum'd the Time about Words, which they ought to have bestow'd upon the Research of Things. The Learned of this Kind, far from sorming their Taste from so perfect Models, knew all that was in the Ancients but

their Graces and Delicacy.

Nevertheless, 'twould be unjust, not to be thankful, and acknowledge the Obligation they have laid us under, for the great Trouble and Labour they have fav'd us: And we can never be too thankful for their Diligence, and the great Pains they were at to fearch for and discover the best and most ancient Manuscripts; and for their collating and comparing them together; and for their giving us excellent Editions. Would you have an Inftance? Look only to Faerne's Terence. The Successors of those Grammarians inherited both their good and bad Qualities, and even to the Middle of the last Century. Salmasius, with vast Erudition, had a great deal of Vanity and low Jealoufy.

The nigher we approach to our own Times, we see the Learned outdo their Masters, and make new Discoveries. I don't speak of the

Editions

Editions for the Use of the Dauphin; they have not carry'd all the Votes in their Favours. I speak of those fine Editions publish'd a few Years since in France and other Countries, which, while they preserve both the Variorum and Notes of the first Commentators, cut off all that is superficial and loaded with a vain and haughty Erudition: I speak of Phædrus, whom Mr. Pithon has revived; and (which is more important) of so many Works, not known before, of the Fathers of the Church, which Jerome Vignier and Francis de Combsix have published for the first Time.

The good Taste of our Age has not allowed us to neglect the French Language, while we cultivated the Latin. As it concerns us very much to know it, let us go back to its Source, and follow it in its Course

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and Progress.

The French.

Tudesque.

The Francs, when they establish'd themfelves in Gaul, left to the Natives of the Country their particular Usages and Customs: And, during the first Race of our Kings, there were two People in France, who spoke two different Languages, the Latin and the Tudesque. Mean time these two People approach'd one another by little and little. Whether thro' Necessity or Complaisance, the Romans or old Gauls accommodated themselves to the Manners of the French, whom they found no longer to be fo barbarous; and leaving their own, took partly to the Manners of their Masters; they, on the other Hand, admired the Politeness of their new Subjects, and were much taken with their Manner of Living; at length, each of them adding something of their own, they became one People and one Language, but a Language compos'd of two which were

abolished; the Latin as to the Words, and the Tudesque with regard to the Construction of

Speech.

But it must be observed, that as the Genius of this Language retained more of the Roman than of the German, it was very soon subjected to Articles and auxiliary Verbs: Its Terms, which were corrupted as they departed from their Original, took a new Termination, and were confounded with many Terms of the Northern People, who at different times had made Incursions into Gaul.

This Language called Roman, after having banished the Tudesque, which our first Kings spoke, was fully form'd under the Reign of Lewis the young. Fauchet proves it (z). This Author, who is so learn'd in our Antiquities, says, that from that time they began to write; for a Language is made, when it gets beyond the Limits of familiar Discourse, and is become capable of Style. A fine Genius (a) believed with Probability enough, that in the Voyages beyond Sea, which both preceded and sollowed that Epoch, the French chose to imitate in some things the Oeconomy of the Greek Language.

The Poets, who afterwards crouded the Courts of Princes under the Appellation of Jongleurs, gave a new Turn to our Language; and to which Jean de Meun (b), and after him Alain Chartier (c), added new Graces. Amiot, Marot, and their Cotemporaries, enrich'd it with some foreign Phrases, to which our Affairs beyond the Mountains gave occasion. The Civil Wars, with which France was afflicted,

C ftopt

(z) De la Langue Françoise.

(b) Continuateur du Roman de la Rose.

(c) Secretaire de Charles VII. .

⁽a) Le Pere Bohours, Entr. fur la Langue Françoise.

stopt a little the Progress of our Writers, and our Language continued very imperfect under these four Reigns: The Glory of polishing and bringing it to Perfection was referved for Malberbe and Balzac: They brought a Cadence and Harmony into it, which no body had any Notion of before. To fay all in a word, they made it capable of expressing all the Beauties of

Poefy and Eloquence.

Every living Language is subject to change; it goes on to Perfection, or degenerates; it follows always the good or bad Tafte of the Na-'Twas to purify the Taste more and more, and to bring the Language to the Point of Perfection it is capable of, that Cardinal de Richelieu founded the French Academy, which, under the Protection of our Kings, has carried the Belles Lettres to that Degree of Elevation we now fee them in. That illustrious Company propos'd at first, to shew and declare what was good and proper French, and to fix the fundamental Rules of our Language; which was to promife a Dictionary and Grammar.

The Academy perform'd its first Promise, Anno 1694, and having carefully revis'd its Work, it publish'd a new Edition of its Dictionary, or rather a Dictionary altogether new. That the Dictionary might be not only of use, but to the good liking of every one, the Academy had regard to the different Tastes, and followed two different Methods in compiling of it. The first, which disposes of the Words from their Roots, agrees best with the Learned; the other, which ranges according to the Order of the Alphabet, all Words, whether simple or compounded, is better suited to the

Capacity of ordinary Readers.

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The whole Academy join'd in this double Work, and every Member did something towards its Persection. In the mean time, it did not neglect thinking of its Grammar: To prepare for it, it had made Observations upon the Remarks of Vaugelas. "But that Company (says a samous Academician (d), in his Examination of the Doubts upon the Language) were immediately of opinion, that the Work of a System, as a Grammar is, could not be conducted but by one Person; therefore they gave the Care of it to Abbé Regnier, who bestow'd upon it all the Knowledge he had acquired by fifty Years Reading and Resleximons."

It was not, that our Language wanted Grammars altogether; but all of 'em, which had been published, were very faulty. The Grammar of Pere Chifflet a Jesuit, which was one of the best, and exact as to the Rules, had not a French Air, and savour'd of the Franche Comté. The anonymous one, which is conceal'd under the Name of Mr. de la Touche, deserves no Credit, in all the Rules it gives of the Pronunciation. 'Tis a greater Work, than a good Grammar, and more difficult than one would think. The Academy perhaps might even find something to correct in that of Abbé Regnier.

Let us not forget the Etymological Dictionary of Mons. Menage. Every body knows of how great Use such Enquiries are for understanding the Force of Words and Orthography, and they even afford some Pleasure; and it were to be wish'd, that there were Dictionaries of this sort compiled for the different Idioms of our Provinces. They are very ancient, and if they were well explain'd, they would help a C 2 good

(d) M. Abbé Olivet, Hist. de l' Acad. Franc t. 2. p. 63.

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good deal to clear up the Meaning of the proper Names of a vast Number of Places: One of the Learned of this Age (e) cites the Biscayan Language on this Subject, and shews its Conformity not only with the Language of a Part of France, but also with the Spanish and

Irifb.

Precepts are of little Use, if they are not supported by Examples; the Academy gives Rules and Examples in every kind of Writing. La Fontain and Benserade are good Guides for the simple Style, Bossuet and Patru for the high Style, D'Ablancourt for the middle, Mess. De Bussi, and Rochefoucault have a certain Air of Quality in saying things, which is not at all to be acquir'd by Study.

This Way of Writing easily, naturally, and as it were negligently, is, in my Opinion, a considerable Part of the French Urbanity. It appears principally among the Ladies of the Court, who have a fine Turn, by means of the most polite Education and Conversation. And if I am allow'd to tell my Thoughts, 'tis in this happy Talent that the Perfection of the

Language confifts.

This esteemable Quality is not to be found in other Languages. The Italian has something in it that's merry, jocose, and toying; the Spanish goes too much upon the other extreme; Pomp, Ostentation, and Bombast make its Character. Both the one and t'other have degenerated from their former Purity. If you would see these two Languages in their Beauty, you must see and consider them in their Infancy. Guevarre, Marianna, and Lewis de Grenade, have a Purity of Style in vain to be

⁽e) M. Leibnitz dans sa Lettre à Mons. Chamberlain, 28 Avril 1714.

look'd for amongst the Spanish Writers now-adays. As to the Italians, Boccace and Petrarch have been but weakly imitated by Bembo and Tasso; and it may be said, that Cardinal Bentivoglio, Guarini and Marini, are only as the last Wreck and Remnants left us of that Language. Yet it has not wanted some good Writers, who have endeavoured to recover its old Beauty: Ferrante, Longobardi, Matthei, Ruscelli, Pergamini, &c. stood up and appeared stoutly against the Corruption; and the useful Labours of the Academies (f), join'd with the Writings of the Wits of this Age, give good Ground to believe the Re-establishment of that Language.

Our Men of Quality learn the German Lan-German. guage, more for the Conveniency of Travelling than Reading: On the contrary, the Learned study the English Language upon the English. account of the excellent Books which for some time have been written in it. The other Languages are neglected, as truly they deserve to

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But now that the Turks begin to forsake their old Barbarity, and to cultivate Learning, their Language becomes less indifferent to us; and it is more than a Century since we have studied it, and we must confess we don't want helps. Gulielmus Megiserus, Historiographer to the Elector of Saxony, published a Turkish Grammar Anna 1612, which is the first that appear'd. It was follow'd by that which Andre du Ryer, Sieur de Melezair, caus'd to be printed at Paris by Vitré, Anno 1631. Ten or twelve Years after, Jean Molino and Francis-Marie Maggio, Clerk Regular of Palermo, publish'd, the one his Rudiments,

⁽f) Entre autres, de l'Academ. del Crusca, dont le Dictionnaire est tres connu,

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diments, Anno 1640, the other, his Institutions, Anno 1643. Afterwards there appeared something more perfect of this kind, viz. The Turkish Grammar of William Seaman, printed at Oxford, Anno 1670, and that of Meninski, published at Vienna, 1680. All these Grammars are in Latin, except that of Molino's in Italian. At present we have one written in French by Father Holderman a Jesuit, and, which is remarkable, printed at Constantinople (g).

Chinefe.

The Chinese Language deserves to be taken notice of in a particular manner, not only because 'tis the Language of a very polite People, but also because it has Singularities which distinguish it from all other Languages. The Chinese Characters don't form their Combinations neither of Syllables nor Words; they only point the Objects they defign or mean. They reckon of them to the Number of fourfcore thousand, comprehending the four hundred radical Characters, from which all the rest are derived. Indeed, it is not absolutely necessary to know all these Characters; seven thousand may be fufficient for any one, who will confine himself to Books of common Use: but if one would know and read the Books of the Sciences, he must know 15000 Characters. They are ranged by Columns from head to foot, disposed and ordered from right to left. Besides, for the understanding of this Language, there are more Lexicons than Grammars; for befides the Lexicons composed by the Chinese, we have those of Francis Dias, of Christianus Hertric, and of the Fathers Calancus, Trigaultius, and Semedo, Jesuites (b). But all these Dictionaries will foon be eclipfed, when the universal Dic-

⁽g) Journal des Scavans, Mai, 1732.

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tionary of Messis. Freret and Fourmont appears; and the Chinese Grammar of these two learned Academicians will supply what is wanting as to Grammar.

POESY.

OETRY, according to the Opinion of a very judicious Author (i), is as ancient as the World. It was born together with Speech, if I may fo fpeak, and has its Source in Nature itself. Man newly come from the Hands of God, admires and is aftonished at the Sight of the World, which declares the Goodness and Magnificence of him who made it (k). The Sight of so many Wonders raises him to the Contemplation of the supreme Being, wholly occupy'd and intent upon the only Object worthy to be lov'd. He proclaims the Greatness of God, so perfect, so powerful, and so wise; he borrows the Assistance of Voice, which at first can make but inarticulate Sounds; to which he afterwards adjoins distinct Ideas of the Sentiments which he feels piercing his Soul.

A common and vulgar Language would but ill correspond to the secret Expansion of the Heart. Something great and sublime is yet wanting. He reviews and considers Nature all over, and from the various Riches she incloses, he forms to himself the most lively Images, and strongest Expressions. He observes,

(A) Pfal. 18. v. 1.

⁽i) M. Rollin, Maniere d'enseigner les Belles Lettres, Tom. 1. p. 79. d'edition 1726.

ferves, that amongst the different Sounds which Words render, some are sweet and charming, some more harsh; and he seeks to imprint upon the Terms he uses, a certain Number and Cadence.

Such is the Nature of ancient Poefy; its only Task was to publish the Praises of God. Such is its Origin, and fuch was the Use the Hebrews made of it. But the Nations which God left to follow their own Ways, very foon transferr'd to the Creature, the Tribute which was due to the Creator only; thus Poefy, degenerating from its first Purity, was employ'd to celebrate the false Divinities of Paganism; and changing by degrees, it descended to the Sons of God, to Founders of Empires, Conquerors, and to all those who acquir'd to themfelves a great Name. At length, thro' a deplorable Blindness, it was debased and made use of to praise the most shameful Vices, and to make the most infamous Passions appear amiable: fad Consequences of the Depravation of Mankind, which deify'd its Passions and Vices.

This is the Abuse which the Greeks, and the Romans after them, made of an Art so noble and so facred in its Origin. Yet they preserved a clear and distinct Notion of the true Character of Poesy; they required of their Poets a Fertility of Invention, a Nobleness of Sentiment, and a Greatness of Expression; and above all, an Enthusiasm, which came next to divine Inspiration. 'Tis seldom so many Qualifications meet in the same Subject; Art can by no means give an Elevation of Genius, strong Sense and Vivacity, or a quick Imagination; hence that generally received Maxim, That we must bring with us, at our Birth,

these good Gifts from Heaven.—Hence, the small Number that excel in Poefy.

What appears most surprising to me, is, that infinite Difference which is to be observed from Age to Ageamongst the most polite People.

One would think a great Number of good Greek Poets should have sprung from the Ashes of Poesy. Homer; yet the Greek Poesy is confined to that small Space of Time between the Battle of Marathon and the confederate War.

One only Age gave the utmost Splendor Latin. and Perfection to the Latin Poesy, under the

Reign of Augustus.

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Since the Revival of the Belles Lettres, the Italian. great Poets have been all Cotemporaries of Tasso in Italy. — They have appeared all in French. France in the Age of Corneille. Amongst whole Nations, there is no Vestige to be seen of true Poetry. In Spain, nothing but Bombast and Spanish. salse Sublime. In England, their Poetry with English. a pompous and harmonious Dress gives no Image, offers nothing to the Mind but Trisles, or a simple, poor Play upon Words (1). But whence comes this great Difference? Let us not enquire after the Cause, we should stray from our Subject: Besides, what can be added to the solid Reslexions of that able Critick, who seems to have exhausted this Matter (m)?

If there has been Countries and certain Ages, in which Poefy has been known to flourish, and other Countries and Ages which produced no Poets at all; Poefy has also appeared under different Forms, at Times very distant,

(m) M. l'Abbé du Boss, Reflexions sur la poesie, &c.

part 2. feet. 14.

⁽¹⁾ Speciator 1711, April 14th. The Author seems to have been but little acquainted with the English Performances, in all Kind of Poetry, otherwise he would have done the English more Justice all along; and would not have pass'd a general Sentence against them, from a particular Remark of their Countryman.

cording to the different Character and Turn

the Languages have taken.

Among the Greeks and Romans it march'd in Cadence, by the Help of a certain Meafure of Syllables: These Syllables, diversly combin'd, form a great Variety of Verse; and these Verses, assembled in a different Way, form different Kinds of Poems. From this it is plain, that the Ancients made the Beauty of their Versisication to consist in that delicate and sonorous Variety of the Feet, or measured Syllables.

The Barbarians, who invaded the Roman Empire, could not give to their Poefy, a Beauty, of which their Languages were not susceptible. Despairing therefore to make use of them according to the Rules of Metre, they fancy'd, there would be fome Beauty in making their Verses; that is, two Parts of the Discourse, equal, and following, to end with the fame Sound (n). This is the Origine of the Rhime, which all those People who fucceeded to the Roman Power, have adopted. Scarce had they got into this Taste, when they began to introduce Rhime into Latin Poefy: But so insipid a Versification in Latin did not last, nor could be preserv'd, but in some Hymns of the Offices of the Church. which their Antiquity and Destination have made respected. In this matter, that which makes a Beauty in one Language, is oft times insupportable in another. The Attempt which was made in our own Time, to subject our Poefy to the Measure of the Ancients, had as ill Success, as the Invention of the Leonine Verses in the Days of our Fathers.

Lyrick Poefy. Poefy had its Birth amongst the People of God. Guided by the Holy Spirit, it was per-

⁽n) M. Rollin loc. cit.

fect in its Origin: And it was inseparable from Musick, because it was to serve for the Instruction of Posterity; and because Words

put in a Song are better remember'd.

We have nothing in this kind more ancient Its Orithan the Oracles of Jacob, with regard to the gin. Fate of his Children (o). Their Style is figurative and metaphorical; the Thoughts strong and fublime. The two Songs of Moses are of the same Character. In the First, that great Man fets before the Eyes of the Children of Israel their triumphant Passage thro' the Red Sea, the Egyptians bury'd in the Waves, the Inhahitants of Canaan feiz'd with a Panick, and plung'd in Sorrow (p). What a noble and lively Picture! But when Moses is about to leave this rebellious People, he raifes his Voice, calls upon Heaven and Earth to give Attention to his Words; he makes them asham'd and confounded at their Ingratitude, by recounting the Goodness and Wonders of God in their favour: And he foretels the Calamities that must distress them, if they forsake the Lord, and give in to the Worship of strange Gods (q).

The pious Custom of declaring the Works of the Almighty, continu'd among the Israelites. Debora sung upon Instruments the Defeat of their Enemies (r). The Mother of Samuel thank'd God for his Grace, in giving her a Son (r); and Ezechias, when cur'd in a miraculous manner, breaks out into Thanksgiving (t): For the Hebrews were very

careful

⁽o) Genef. ch. 49. v. 3, & feq.

⁽p) Exod. chap. 15.
(q) Deut. chap. 32.

⁽r) Jud. chap. 5.
(1) Kings, lib. 1. cap. 2.

⁽¹⁾ Ifai. cap. 8. v. 10, &c.

careful to compose Songs upon whatever happen'd to them that was confiderable. We fee it clearly in the Pfalms of David, which may be call'd the allegorical History of that Prince, and (which is their principal Object) the Histo-

ry of the Messiah.

The Greeks.

Let us by no means doubt, that Poefy flourish'd in Greece before Homer: And it was the Lyrick, that is, Hymns and Odes, which were employ'd in the Praise of the Deity (u). The more ancient the Grecian Poets were, the more their Poesy resembled that of the Hebrews. This is all that can be faid of these first Poets: For tho' the Names of Linus, Orpheus and Ampbion are famous, their History is wrap'd up in Fable. If we would rest upon any thing certain, we must come lower down, and stop at the nine famous Lyrick Poets of Greece.

Stefichorus, whom Father Petavius places in the Year of the World 3372, about the 38th Olympiad, feems to me to be the most ancient: He sung upon his Harp the famous Wars and great Captains; but he difgrac'd Poefy, by defaming Helen in Verses (x).

Sappho, who liv'd at the fame time, had a great deal of Sweetness and Delicacy in her Odes. We owe to her the Invention of that fmooth running Verse, so proper for Subjects that require to be fung in a foft agreeable

Way.

Alcaus, full of Force and Majesty, took to a higher Tone: He attacked the Tyrants. Tho' he was very capable of great Things, he

⁽u) Plato de Leg. 7. (x) Horat. Epod. 17.

he amus'd himself sometimes with trisling Matters, which he ought to have neglected.

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Simonides, who is very touching and pathetick, excell'd in fad and mournful Descriptions.

Pindar furpass'd all the Lyrick Poets in the Greatness of the Design, in the Variety of Thoughts, in the Boldness of the Figures, and in the happy Turn of Expression: Free from the ordinary Ties and Rules of Speech, he moves and aftonishes with his Cadences and Numbers, which augment its Force. Sometimes he rifes with a continu'd Flight upwards; you lose Sight of him: Sometimes he makes Starts and Sallies, and proceeds with that impetuous Rapidity, till he's loft in the immense Depth of his own Idea's (y). We have nothing of Pindar, but the four Books which the Ancients call'd The Books of the Period. He celebrates in these Books, the Victories obtain'd at the feveral Games of Greece. The rest of his Works are all lost, except a few Fragments, which are scatter'd among the Authors: But that which has escap'd the Injury of Time, is fufficient to make known and immortalize the Merit of this great Poet.

Anacreon, in his Odes, describes Love, Pleasure, and Play, in an easy, sweet, and tender Style: Or, to speak out the Truth, he exhibits the Bent and Motions of his own Heart in a manner a little too passionate.

Bachilides, Alcmand, and Ibicus, are but little known; and, perhaps, deserve as little to be known.

A long time after, under the Reign of Ptolemy Philadelphus, the Poet Callimachus appear'd;

⁽y) Lib. 4. Od. 2.

pear'd: He wrote a great deal, tho' we have

nothing left of his, but fome Songs.

The Romaus.

It was long before the Romans apply'd themselves to Lyrick Poetry. Horace, who was the first who discover'd, and made its Beauties known to them, had none to imitate among the Latins: He took his Models from among the Greeks; and making choice of Anacreon and Pindar, he blended the Strength of the one with the Sweetness of the other; and so became a Poet of a Stamp and Character quite He rais'd himself with Dignity, without losing any thing of the Graces; and being happily bold in the Variety of his Figures, he charm'd the Ear with the Sweetness of his Sounds, and fatiated the Imagination by the Vivacity of his Images. Horace left none to succeed him in the Lyrick Poetry. In the time of Nero, Cæsius Bassus made some vain Attempts to re-establish it: Wit was then proftrate, creeping and subjugated as it were by Tyranny and Oppression: But the Lyrick Poem would have fomewhat in it of the Great, Marvellous and Sublime.

When the Love of Learning, which may be call'd the reigning Passion of the 16th Century, had intirely banish'd the Ignorance of former Ages, Latin was the common Language of the Learned over all Europe. 'Twas in this Language they study'd and cultivated Poesy. They were, without doubt, persuaded, that to imitate the Ancients aright, it behov'd them to borrow their very Words; without considering, that that slavish Attachment to Latin extinguish'd in them that Fire and Enthusiasm necessary to make a Poet. 'Tis this, which a good Critick (a) finds fault with,

and

⁽a) Rapin Reflex. fur la Poetiq.

and with very good Reason, in Vida, who, in the Opinion of Scaliger (b), wants Elevation

in his Hymns.

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Georgius Fabricius, tho' diftinguish'd by the Laurel, according to Custom, by the Emperor Maximilian II. is commendable only for the Use he made of Poetry; for he employ'd the Talent, he had that way, only in holy Things.

Horrentinus, a Fleming, was much esteemed in his own Country, and formerly pass'd for the Chief of the Modern Lyrick Poets.

Buchanan has Odes worthy of Antiquity. They would be perfect, if the Diversity of his Style, which wants the necessary Uniformity, did not occasion great Inequalities (c). One of our Poets (d), they say, prefer'd Buchanan's Paraphrase of the Psalms to the Archbishoprick of Paris: 'Tis a strong Expression, but it shews what Account was made of that Work.

In France, Salomon Macrinus (e) reviv'd the The Taste for Lyrick Poetry: Muretus and Dora-French. tus cultivated it, and M. Santueil brought it to as great Perfection as a Poem can be, which is written in a Language not the Mother-Tongue of the Author. Some of Santeuil's Hymns have been adopted by several Churches, even when he was alive; a Circumstance as honourable to the Author, as it is rare and singular.

Ronfard was the first who dar'd to think our Language capable of the Lyrick Poesy, which he drew from its Fountains: but by his too great Liberty of larding with Greek and Latin,

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⁽b) Rapin, Poetiq. lib. 6.

⁽e) Rapin loco citat.(d) Nicolas Bourbon.

⁽e) He dy'd An. 1557.

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he has render'd the Language harsh and improper. Nevertheless we must allow, that Ronfard's Wit and Genius shine thro' his old Words: His greatest Adversaries, who have said the worst things of him, don't resuse him a good deal of natural Parts, and a lively Imagination.

Remi Belleau, whom Ronfard called the Painter of Nature, put the Odes of Anacreon into French Verse. If he hits the Sense, the fine Touches and Delicacy have escap'd him.

Du Bellay was in great Esteem at the Court of Henry II. He is reckon'd the third Poet

of the French Pleiades.

Racan and Malberbe came afterwards; and upon their appearing, the Face of Poefy changed. They are held in reputation to this day; and their Reputation seems to have grown with the Distance of Time from their Age. But each of them has his own, in a different manner from the Reputation of the other. Racan has more of the Genius; Malberbe more Spirit. The Works of Malberbe are extremely labour'd; but a scrupulous Regularity makes him sometimes dry. The Poems of Racan are more careless; but that Negligence has its Graces, and Graces which are superior to Art.

Theophilus, who follow'd them, fell into the childish Manner of Writing, by affecting too much to imitate the easy Style of Racan, and to avoid the study'd Manner of Malherbe. Like him, he copied Nature, of which he made the Romance; whereas Malherbe has made its Picture, or History (f). Push'd on by the Impetuosity of his Genius, he oft-times left Judg-

() M. de la Bruyere, Charact. Art. 1.

Judgment behind him, and did not know how to sustain himself in the Flight. In some Passages, where he excels, he is inimitable; any where else he never rises above the middle Rank.

Monsieur Godeau is remarkable for his Talent of Versifying with great Facility; but has nothing either to move or warm; empty, and without Matter of any moment, for the most part; but scrupulously methodical in the Disposition of his Matter, such as it is; and so uniform in his Expressions, that he seems to copy after himself, and knows nothing of the Art of diversifying his Turns and Figures (g).

I say nothing of Lyrick Poets who are yet alive; or of those who are yet fresh in our Memory. It belongs to the Publick to judge of them, — which it is not allowable to anticipate: Nor does even the Judgment of the Publick become invariable, till Time (if I may use the Phrase) has put the last Seal to it.

The Nature of Poefy is both to please and instruct (b). That it may please, it borrows from Nature every thing that is charming and gay: It adorns its Diction with Number and Harmony; and it never fails to employ the Marvellous and Pathetick in their proper Places; so that it makes itself always entertaining and agreeable. That it may instruct as well has please, Poefy describes and exposes to View, and in a true Light, Virtue in all its Beauty, and Vice in all its Desormity; and by Examples artfully managed, inclines us to love and embrace the one, and to hate and fly from the other. This is the End and Design it aims

⁽g) Lettres de Mess. Despreaux & Maucroix. (b) Heras de Arte Poetica, V. 433, & 334.

aims at; which, that it may come at, and accomplish, it makes use of Imitation: Sometimes it sets before our Eyes the Action which it paints, and This is peculiar to the Drama.---Sometimes it contents itself with narrating the Action; and this belongs to the Epick Poem;—in which the Action must be great and illustrious; and all other incident Actions must answer to it, if not in a necessary, at least in a probable manner.

Of EPICK POETRY.

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E are oblig'd to the Greeks for the Epick Poem; and Homer is the Father ther of it. His Iliad is the finest Production of the human Mind (g); in which the Beauty and Order of the Defign, the Nobleness of the Expressions, and the Delicacy and Passion of the Sentiments; the Variety of the well-chosen Epithets, Metaphors, and Comparisons, are as much to be admir'd as they are inimitable (b). Homer is both copious and concife, grave and delightful. He treats grave Subjects in a sublime manner, and Matters of smaller Importance with Purity and Justness (i). After he has given in the Iliad the most lively Representation of the pernicious Disorders. which the Anger of Achilles had rais'd in the Grecian Camp; in the Odyssey, he gives the Representation of a wife Man toss'd about in the Sea of Advertity, always expos'd to new Dangers,

(g) Pretiofissimum humani animi opus. Plin. Hist. lib. 7. cap. 29.

⁽b) C'est le jugement de Denis d'Halicarnass.
(i) Quintil. Instit. Orat. lib. 10, cap. 1.

Dangers, and constantly superior to his bad Fortune: And in the Person of Ulysses, he shews us what Prudence and Virtue can

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About 120 Years after Homer, Hefiod flourish'd, famous for his fine Genius, and the Sweetness of his Verse (l). I doubt, if I should call his Theogony a true Epick Poem; there is nothing that's great in it but the Subject. The Poets of the following Ages are of a low Character (m): Their Style is cold and languid; and they know neither the Regularity of Design, Goodness of Manners, Nobleness of Sentiments, nor the Beauty of Diction.

As the Greeks have but one Homer, neither The La have the Latins but one Virgil. The same tim. Age faw the Reputation of Ennius both rife and die away. When we read, that the first Africanus would be laid in the same Tomb with this Poet, we ought to judge of it, as proceeding rather from his Friendship, than the Merit of the Poet (n). Lucretius succeeded; his Work is not so much an Heroick Poem, as a System of Nature. Lucretius discovers an uncommon and laudable Genius; must admire his Boldness who succeded so well in painting of Objects, which seemed not at all made for the Pencil of a Poet (0). But his Works are but little read. Lucretius has not the Art of Pleasing, and Men for the most part seek after Pleasure. 'Tis true, he pretended to instruct; but you will find more solid In D 2

(k) Horat. lib. 1. Epist. 2. initio.

(1) Vell. Paterculus Hift. lib. 1. cop. 7.

(n) Liv. Decad. 4. 1. 8.

⁽m) Coluthus T. iphiodorus, Musæus, Apollonius the Rhodian, &c.

⁽o) M. Abbé du Bas Reflex. critiq. fur la poefie,

Instruction in that excellent Poem compos'd by a great Cardinal on that very Subject, on purpole to refute Lucretius (p). The Epick Poem is not to be found in Latin, but in the Eneid of Virgil, the only Imitator of Homer; and which may be compared with the Original. If he has not all the Beauties of his Pattern, he has some others which are peculiar to himself. Homer, says an ancient Critick (q), bas more Genius, Virgil more Art; Homer more sublime, Virgil more correct. The former flies higher, and with greater Force; the latter, indeed, don't fly so high, but supports bimself better, and never falls. Virgil is blam'd for fome Faults of Negligence, which a careful Revifal, if he had had the Time, might have eafily amended. His 5th Book is the most perfect of all, in the Opinion of some (r); and indeed it is exceedingly elaborate. observes exactly the Truth of History. this Virgil is inferior to him; the Episode of Dido is visibly fabulous, and the Arrival of Eneas in Italy, which is the Foundation of the whole Poem, is contrary to the ancient Traditions. Homer paints according to Na-Virgil's Hero is a Hero of his own making; it is not Aneas, it is Augustus, whose Picture he has drawn with all that is fine in the Features of Achilles and Ulysses.

Under the Reign of this Emperor, Pollio Varius and some others apply'd themselves to the Epick Poetry. If their Poems had been as good as the Æneid, is it to be thought they would have been buried in Oblivion? Ovid their Cotemporary has a fine, lively Spi-

(p) M. le Cardinal de Polignac.

⁽⁹⁾ Quintil. Inst. Orat. lib. 10. cap. 1.

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rit and Imagination; he wants neither Humour nor Genius; and his Expression is so fwift, it feems to run before his Thought; but he is very empty in his Metamorphofis; he fometimes commits Faults contrary to Judgment, which makes him go aftray. Lucan, who liv'd under Nero, affected the Sublime without Measure; and if he sometimes hits it, he is oftener guilty of Bombast; he soars, he evaporates, he over-does his Paintings; and, by a childish Affectation, he loses himself in long Differtations on natural Things. what remains of Lucan's Character, I could with Montagne (s) love him for his Veracity and Judgment, and prefer the Historian to the Poet.

As we descend from the Age of Augustus, we see Poetry begin to take a wrong Turn. Valerius Flaccus in his Argonautes is below the middle Rank of Poets; he is cold and languishing. Statius is never in his right Wits; his two Poems (t) have something, I don't know what, irregular and monstrous in them: He makes the Essence of the Epick to consist in a Pomp of Words. Silius Italicus is more regular and just in his Ideas, and more correct in his Arrangement; he writes the second Punick War in Verse, with a good deal of Art, but little Genius (u); his Diction hath nothing noble in it. These three Poets slourish'd in the Reign of Domitian.

Ausonius and Claudian, who made their Appearance in the Reigns of Valens and Honorius, were not able to overcome the Grossness of the Age they liv'd in; nevertheless, the Mo-

(s) Essais, liv. 2. ch. 10.

⁽t) Thebais, Achilleis.
(u) Plin. lib. 3. epift. 7.

felle of Ausonius deserves in some Measure to be commended. Claudian is not equal enough in his Course; he breaks out, and makes disorderly Sallies; he has no Taste for the Turn of Verse; for his Verses fall almost always into the same Cadence.

About the same Time, the illustrious Proba Falconia, Mother of the two Consuls, made but a bad Use of her Wit and Memory, by the tacking together a great many of the Hemisticks of Virgil; and from that santastick Junction or Soldering of these half Verses, resulted that ridiculous Cento or Rhapsody on the History of the old and new Testament.

The Ita-

This Sort of Poem took a little, and there were some who imitated it in the 16th Century. The Italians studied it, and Lelio Caluppi excell'd in it. They receiv'd at that Time, and were fond of every thing that had the least Mark of Antiquity; for they would, at any Rate, copy after the Ancients. Dante had open'd the Way 200 Years before; his Poem, which was look'd upon at first as a Comedy, pass'd afterwards for an Epick Poem (x). The mysterious Air it has all along, makes it so obscure, that it is with great Difficulty one can understand it.

He was succeeded by Boiardo and Du Pulci, who were for a long time the favourite Authors of their Countrymen; but yielded the chief Place, at length, to Ariosto, who was a greater Poet than all those who were before, if by Poesy nothing is to be meant but Versification; which, in Ariosto, appears both in Purity and Majesty. Notwithstanding these two Charms, his Rolando is an ill conducted Piece;

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⁽x) See the Poetique of Castelvetro.

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and, to speak plainly, it is nothing but a shapeless Heap of Stories, with little or no Connection; nor is the Marvellous blended at all with the Probable. The Books of Knight-Errantry had spoil'd the Taste and Way of Thinking. Could any thing solid, or consistent with good Sense, be expected from an Imagination, tho' really fine, if it was full of, and employed about Sorcerers, Giants and Monsters?

Under the Pontificate of Leo X. and Clement VII. the Light began to appear out of this Cloud, and Heroick Poetry to be better under-Triffin was the first who shew'd that he knew the Rules and Nature of it. In his Italy delivered, we see an Imitation of the Iliad of Homer. Tasso, who came after him, furpassed him very far, tho' he seems to have taken from him the Plan of his Jerusalem; it is the finest Performance that ever came from Italy: The Defign of it is admirable; the Ranging of the Fable perfectly regular, but unluckily the Execution does not always anfwer to the Project. Taffo affects to be witty, and his Thoughts for the most part are set off with false colouring; he gave in too much to the Way of the Age, and makes his Heroes over gallant. He forgets the Dignity of his Subject; his Descriptions are loaded with fuperfluous Ornaments; the strongest Passions oft times degenerate into gay Images and affected Turns. The Brilliant predomines in this Poem; one can feldom perceive the Truth in it. All these Poets wrote in Italian.

These who follow, wrote in Latin. Fracastorius, who had succeeded so well in his Siphylis, a Work in the Taste of the Georgicks of Virgil, makes but poor Work in his Poem of Jo-

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shew'd little Judgment, by introducing into a facred Subject all the Divinities of Paganism (y). The Christiada of Vida is not altogether free of this Fault. The Narrative of Vida is since, his Style, which is extremely pure and pleasant, is but one continued Parody of Virgil, as it has been critically remarked (z). Grotius and Heinsius are too learned; great Learning does oft times extinguish the poetick Fire, and marrs the Delicacy of Expression.

The Spa-

As for the Spaniards, Lopez de Vega is their Homer; he had great Elevation and Extent of Genius; but his Ideas are out of all Measure, and his Expressions hyperbolical; and as his Characters are extravagant, he never paints according to Nature, which loves Simplicity. The Obscurity of Camoens makes up all his Merit; the Portuguese admire him so much the more, as they do but little understand him; he has expressed very well the Pride of his Nation.

Our Language rejects equally the trifling Conceits of the *Italians*, and the monstrous Imaginations of the *Spaniards*; nevertheless, the Epick Poem has been the Rock against which our Poets have been always dash'd and lost.

The freuch.

The Franciade of Ronfard did hurt to his Reputation. Besides the Impropriety of the Terms, the Style is hard and dry. The first of these Faults is common to him with Du Bartas; the second, a long Time after was the Fate of Chapelain in his Maid of Orleans (a), which

(x) De partu Virginis.
(x) Tessier addit. aux eloges tires de l'hist. de Mr. de Thou, sur l'an. 1566.

(a) Ce poeme parut. an. 1656.

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which would be a perfect Work, if the exact Observation of the Rules could supply the Want of Genius in the Composition of an Heroick Poem. The Clovis of Demarets, which is very good, with Regard to its Subject, Manners and Qualities, has no Sentiments which interest and affect, nor any Images which are natural. Truth is the Foundation of Poefy; and that which we call True, is never to be found but in Nature. Monfieur Perrault came afterwards, who admired fo much the Merit of the Moderns, that he made no Scruple to prefer them to the Ancients, in his Poem of the Age of Lewis le Grand (c); which gave Occasion to a Quarrel that divided the Wits, and made them fight in feveral pro and con Essays.

Monf. de Cambray, when he published his Telemachus, made it evident, that one might at least try to equal the Ancients. wants nothing but Verfification to make this excellent Work an Heroick or Epick Poem, if it be true that Rhime is effential to it.

As for Amadis and other Romances of that Sort, they cannot have a Place here: They have what we call The Marvellous; but the Fiction is without all Manner of Probability. Besides, it would not be easy to find in them what may be call'd The Style of Poefy; and yet it's what conftitutes a Poem, even in Profe; and is, as it were, the Soul of it.

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⁽b) Huetiana, art. 19.

⁽c) Publish'd an. 1687.

The DRAMATICK Poem.

W E remarked, that the Epick Poem narrates, and that the Dramatick acts: But the Action of the Drama is either Illustrious or Common. The Persons of the Drama are either Princes, or ordinary private People; and this is what makes two Kinds of the Dramatick Poem, viz. Tragedy and Comedy: Both one and the other make use of Iambick Verse, as most proper for Dialogue. Both of them are originally from Greece.

TRAGEDY.

TRAGEDY at first was only a simple Chorus, which sung the Praises of Bacchus dancing. Thespis led about in a Waggon through the Towns of Attica a Company of this Sort of Actors, all bedaub'd with the Lees of Wine. Eschylus gave them Bushkins and a more decent Mask; he made his Actors mount a Theatre, and made them act greater and nobler Pieces (d).

Sophocles and Euripides augmented the Pomp and Shew, and brought the Poem to Perfection, and found out the Art of interesting and engaging the Chorus in all the Action.

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(d) Horat. de arte poet.

⁽e) Despreaux, art poetiq. chant. 5.

We may confine the Greek Tragedy to those fifty Years which follow'd after the Expedition of Xerxes; that is, the Epoch of the good Days of Greece; then the Arts and Sciences were carried to the greatest Degree of Perfection. Both before and after that, bad Tafte and Ignorance prevail'd. We need feek for no other Cause of bringing the Arts and Sciences fo foon to Perfection, than that Emulation among the Learned and skilful Artists, and the Distinction and Rewards which were proposed for the Performances. I take Notice of this, particularly with regard to Tragedy. Cimon having brought back the Bones of Thefeus, the Athenians, on this Occasion, established a Trial of Skill and literary Combat among the Tragick Poets. Instead of a Goat, which formerly was the Reward of the best Singer or Performer, the Victor received an honourable Recompence amidst the Applauses of all the Assembly. The Prize or Crown was often adjudged to Eschylus, who was the Honour of the Stage.

Sophocles, the very young, enter'd the Lists; and having presented his first Piece, he carry'd it against his Antagonist, by the Judgment of Cimon. Thus this young Tragedian got the Government of the Theatre, or rather shar'd it with Euripides; for Æschylus had given it up, and oppressed with Grief had retired into Sicily. Let us stop here a little, and examine the different Characters of those three Poets.

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Æschylus has Elevation, and perfectly noble Ideas; but he swells sometimes in his Poems in place of being truly great. His Fictions are prodigious, his Persons mon-strous.

strous, and his Images too large: He observes

no Order (f).

Euripides excels in the Expression of Love and Fury: He is tender, passionate and pathetick. His Andromache made so strong an Impression upon the Abderites, that they were feiz'd with a Kind of Madness. Their Imagination was fo disorder'd by the Representation of that Piece, that they both look'd and spoke as if they had lost the Use of their Reason (g). Tho' Euripides (b), says Longinus, is not naturally inclin'd to what we call the Great; yet he don't fail to rife when the Subject requires it; and he is happy in giving to the most common Thoughts a certain Turn of Expression, which renders them sublime (i). The Moral of this Poet is very fine; he had probably profited by the Conversation of Socrates his intimate Friend.

Sophocles paints Things in their proper Colours; no body ever made a better Use of Terror and Compassion, the two great Resources of the Tragick Poem; it is upon this Account, that his Oedipus is the most perfect Model, and the most regular Piece of all the Ancients have left us in the Dramatick Kind. In general, the true Character of Sophocles consists in this, that he represents and exhibits Man such as he ought to be, while he paints him as he really is; and that he embellishes all his Pictures, by preserving the Manners, which he intended the Person should have. These Poets were not satisfy'd with pleasing

(g) Lucian. de ratione scribend. hist.

(b) Loco cit.

⁽f) Aristoph. Clouds, act. 5. Quintil. lib. 10. cap. 1. Longin. sublime, ch. 13.

⁽i) Longin. cap. 32.

pleafing only; they studied to instruct also. In this View, they brought the Passions upon the Stage, in order to cure them. The Panick they represented they were seiz'd with, the Tears which they made to slow, had no other End, but to fortify the Spectators against vain Fears and soolish Compassion. Tragedy, after this, declined among the Greeks; nor could any, or all of 'em, who mounted the Theatre, as Lycophron and Sosistheus, maintain the Dignity of the Buskin.

It was pretty late before the Romans were The Roacquainted with Tragedy. After the Cartha-mans.
ginian War, they began to read Æschylus and Sophocles, and they endeavour'd to imitate them.
Livius Andronicus, Accius, and Pacuvius were
the first Tragick Poets Rome ever saw. Horace
allows only the Glory of the Invention to Livius; and he looks upon Pacuvius to be the
most learned of these Poets, and Accius to be

the most fublime (1).

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The Humour which the Romans took for Comedy, made Tragedy neglected for fome time; but they foon found they must return to it; for the great Men retain'd always a Taste for it. The ancient Grammarians have transmitted to us the Names (m) of the Thyestes of Gracchus, of the Alemeon of Catullus, of the Adrastus of Cæsar, of the Octavia of Mæcenas, of the Medea of Ovid. All these Tragedies are loft, and we have none preferv'd but those of Seneca; whether we are obliged to Seneca the Father for them, as some pretend, or to Seneca the Philosopher, according to the common Opinion. But however that may be, if the Learned don't agree about the Author of these Pieces,

(1) I ib. 2. Epist. 1.

⁽m) Censorinus, Fostus, Priscian, Quintilian, &c.

Pieces, it is certain they may find in them whole Passages full Fire and Vivacity, where it is not easy to find good Sense and Justness of Thought. They all agree, that Seneca would speak well, if he spoke naturally. In the time of Vespasian, one Maternus made Tragedies; and about three Ages after him, under the Empire of Constantius, an Ægyptian call'd Audronicus wrote for the Theatre.

The Scenical Sports made a Part of the Worship of the false Gods; and these Shews were to be seen no more after Paganism was abolished. In Process of Time, Ignorance made them forget those things which their Abhorrence of Idolatry had made them reject. So that Tragedy slept, and did not awake till the sine Arts emerg'd out of that Eclipse, the Barbarity of the Northern People had kept them under for several Ages.

The Ita-

Triffin was the first of the Italians, who composed Dramatick Pieces; and his Sophonifba, which was acted at Rome under the Pontificate of Leo X. did a great deal of Honour to that Poet. He had for Successors only Cynthio of the Academy of the Affidati at Pavia; Speron, Speroni, and Taffo. The Tragedies of the first are but little thought of; that of the fecond, call'd Canacée, has had some few Partisans who stood up for it. And the Torismond of Tasso is the most imperfect Piece of his Works, in the Opinion of Taffo himself. I don't believe, that during the Course of the 17th Century, there have appeared more than thirty Tragedies in Italy, Operas excepted. Every Nation stamps its own Character on a Tragick Poem. The Italians give their Perfons an Air of Declaimers,

The Spaniards bring none upon the Stage The Spabut amorous Knights; 'tis by them, that the aiards. Heroes of Antiquity have been made to act the Part of Lovers.

The English, on the contrary, naturally love The Encruel things, and are delighted with a bloody glish. Their Language is very fit for Trage-Stage.

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The Dutch are too dull for a Poem which Dutch. requires fo much Spirit and Nobleness of Thought. The Generality of their Nation are but little acquainted with the Rules; and their Learned, who have applied to this fort of Poe-

fy, have composed in Latin.

Etienne Jodelle was the first who enrich'd our The Language with the Tragick Poem. After him, French. Jean de la Peruse wrote several Tragedies, which got him great Reputation. And Robert Garnier surpass'd them both. This is the first Age, and the Infancy of the French Drama. Some Poets who came after, were (if I may fo fpeak) the Twilight to the Rifing of the great Theatral Poefy. Corneille appeared after them, and display'd on the Scene such Beauties as were till then unknown. At first he accommodated himfelf to the Taste of his own Time in his Clitandre. After that, in his Medea, he took flight all of a fudden, and carried it higher in his Cid. In vain did Scudery, by a Poem more regular indeed, but of the middle Class only (n), attempt to carry the Suffrages against Corneille. tho' supported by the Protection of a great Minister (0). This illustrious Poet took no other way to pary the Thrusts, and defeat the Devices of his Adversary, than by producing new Wonders, and diftinguishing himself by Master-

1632. 1636.

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⁽n) l'Amour Tyrannique.

⁽e) M. Cardinal de Richelieu.

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pieces of the Art, far beyond common Rule and Capacity. He compos'd the Horatii, and 1641. he mounted in his Cinna and PolieuEtes to the 1643. highest Degree of the Tragick Sublime: His 1644. Pompeé came afterwards, then Rhodogune; to 1646. this succeeded Theodose and Perthorite, which were but little lik'd. Then OEdipus, Serto-1659. rius, Sophonishe, and Othon; in all which there 1662. is a certain Hardness and Dryness of Style. 1667. Attila followed Othon; and it was by Berenice, Pulcherie, and Surena, that this great Man fi-1671. nish'd his Course. These last Pieces are very 1673. weak, tho' not without their Beauties. After all, they are the Productions of an old Man; 1675. but this old Man is Corneille.

At this time the ingenious Mr. Racine began to establish himself on the Theatre. His first Essay was the Thebaide, which he wrote in the Taste of Corneille; but being born to be a Model himself, he very soon left off that way. And from a Defign to please, he studied the Taste and Character of his own Age. Reading of Romances had given a turn towards Tenderness, lively and passionate Sentiments, towards a pure and elegant Expression, and towards Descriptions and Painting according to Nature, and with the Graces, which never fail to please the Ladies, whose Opinion, with respect to the Stage, is of so great weight. All this Mr. Racine observing, took to this way in which he excell'd. He publish'd his Alexander, which, tho' disapprov'd by Corneille, charm'd all Paris. He compos'd it when he found he had a furprizing Facility in making Verse. Instructed afterwards by Mr. Despreaux, he carried Tragedy to a Point of Perfection, which was wanting in his first Pieces. Scarce was he thirty Years of Age, when in his Andromache,

1670.

dromache, he revived the favourite Passions of the Ancients, viz. Terror and Pity. He degrades, 'tis true, Titus in his Berenice, by giving that Prince a foft and effeminate Character. And he does too great Honour to Junia, whom he describes as a virtuous Lady, in his Britan-Bajazet was not at distance enough to make him admired, as he deferved. thor of that Poem was more happy in his Mithridates: If he had a Veneration for Sophocles, he strove against Euripides; and the Iphigenia of the Modern is by no means inferior to the Iphigenia of the Ancient. A Piece is not perfect, but by an exact Observation of the Rules: Phedra is a Proof of it. If all our Tragedies did refemble it, they would be so much the less contrary to good Manners. How amiable is Virtue in that Tragedy! And Vice, how monstrous and frightful! But what Greatness, and what Sublimity in his Athalia! The Figures are bold, the Sentiments high, the Images pompous. One finds, over all the Athalia, the masculine Eloquence of the Holy Scriptures. After the Death of Mr. Racine, the Theatre has been a Prey to Writers, not worthy to tread in the Steps of this great Poet. I except some few, who have been applauded. In a word, they have not imitated Racine but in the weakest Passages, and which they have even managed more weakly.

The Athenians, who were naturally Jesters, Comedy and given to Rallery, were the Inventors of at Athens. Comedy. This Poem is the Imitation of the Ridicule, or what is observed to be ridiculous in Men; and the End which it proposes to itself, is to render us more agreeable and useful to So-

ciety, by making us correct those Faults, which its Action exposes. Eupolis, Cratinus and A-

ristophanes,

ristophanes, the first famous Writers of Comedy, appear'd all at the fame time, during the Peloponnesian War. And they took the Liberty in their Verse, to paint and describe to the Life, all that they knew of Debauchees (p). Not content with reproving private People, they neither spared the chief Magistrates, nor Generals of the Army. Cleon, Lamachus, Pericles and Alcibiades were play'd, and chaftifed by turns. Aristophanes, when he mounted the Stage, eluded the pernicious Defigns of some of them, and render'd the others suspected; and by this means he prevented the Oppression of his Country. It is not at all aftonishing, that a People jealous of its Liberty and Authority, should take Advice so agreeable to its Inclination, especially when seasoned and recommended with all the Delicacy of the Attick Idi-What I most admire, is, that this same People, so haughty and unmanageable, should patiently fuffer this Poet to attack the Republick in a Body, to tell and admonish them of their Duty, and to reproach them with their Faults, in fo free a manner, as would appear to us very hard at this day.

The other Comical Poets (for they were very many) had neither the Talents nor the Modesty of Aristophanes. Their Assurance was carried so far, that the Government thought sit to put a stop to that Licentiousness, by discharging the Actors to wear Masks that had a Likeness with any body, and the Poets to name the Persons. There was therefore a necessity to make supposititious Names, and to seign the Subjects; and thus Comedy changed its Appearance, and it was call'd the middle Comedy, to distinguish it from the ancient,

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⁽p) Horat. Lib. 1. Sat. 4. intio.

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which by this means was suppressed. Aristophanes has written in both kinds. He began to make himself known at the Age of thirty or forty Years, by his Convives, which has not been preserved. His first Pieces are of the ancient Comedy, and amongst his last we see Examples of the middle kind. If I may be allow'd to speak, I have not Discernment fine enough to perceive the Difference, they make, between the middle and the new Comedy, which they ascribe to Menander. This Poet, fome will fay, was more circumspect; and it is the Reason why Plutarch compared the Muse of Menander to an honest Woman, and the Muse of Aristophanes to an impudent. But might we not, with as great Exactness, make the Comparison between the Clouds of Aristophanes, and the Plutus of Menander?

At Rome, Comedy had very weak Begin- At Rome, Titus Livius (q) places the first Stageplays under the Consulate of T. Sulpitius Peticus and C. Licinius Stolo; when, upon the Occasion of a Plague, they sent to Tuscany for fome Actors, who dane'd to the Sound of the Flute: Afterwards the Youth of Quality referving that Piece of Amusement to themselves, they added to it Ralleries in Verse, after the manner of the Osques. This is, what they called Attellan Pieces (s), which were something like our Italian Comedies. In the mean time, the Roman Tafte began to form, and Comedy to be brought to Perfection, and reduc'd into They had two forts of Comedies, one ferious,

(q) Decad. 1. lib. 7. init.

⁽r) People of Campania.
(s) i. e. Merry Pieces, from Attella a Town in Campania.

ferious, the other jocular. Plautus, who distinguish'd himself in the first fort, copied the Greeks, having no Guide of his own Nation; and by a too flavish Imitation, he made Greek Persons appear on the Roman Stage. The Criticks commend in this Poet the Fertility of his Invention, but find fault with his mean and poor Jests. Terence had less Genius; he wanted a great deal of Subject-Matter, and could make nothing of a little. He hardly makes one of his Pieces from two of Menander's: but he has more Art than Plautus. His Unravelings of the Plot are more natural. He is to be admired, fays Montagne (s), for his representing to the Life the Movements of the Soul, and the Conduct or Quality of our Manners. Our Actions throw us always upon him. One cannot read him, without finding always fome new Grace and Beauty.

Terence, as did all the other Poets, made the Scene of his Comedies in Greece. It was not till the Reign of Augustus, that the Comedians, abandoning the Greeks, dar'd to play the very People who were to be the Judges of their Pieces (t). At that time, there was a new kind of Comedy to be seen at Rome. The two first Inventors of it were Pylades and Batillus, who form'd two Schools of the Pantomimes, the Succession of which continued uninterrupted. This Art was a dumb Representation, wherein, by very regular Gestures, the Actor express'd all

he would fay (u.)

The Epoch of the Cessation of Comedy in the West, is the same with that of Tragedy. It may be fix'd at the taking of Rome by Toti-

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Pantomimes.

⁽¹⁾ Nil intentatum, &c. Horat. de Arte Poet.
(11) Mr. du Bos Reslex. crit. sur la Poesse, Dc.

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las, Anno J. C. 546; and the Revival of it is the same also. But the most People of Europe have cultivated this fort of Writing, there are to be found few Comic Poets of Reputation, and fewer yet who have deferved it. I confine myself to Tasso and to Machiavel for Italy, and to Lopez de Vega for Spain. Amyntas is the Masterpiece of Tasso, in the Opinion of many, and Taffo thought fo himself. All the Italians Tho' Guarini in have striven to imitate him. his Pastor Fido, and Bonacelli in his Filli de Sciro, are perhaps the only, who well expres'd the principal Beauties. This Poem, nevertheless, is not without Faults; it errs thro' too much Wit; the Poet jests upon his own Subject; and Terence would have kept more Meafure, if he had had the fame Matter to manage. Machiavel has succeeded better in his Mandragoras, than in his Clitias. The first is one of the best Comedies extant.

The Italians would needs act, upon our Stage, the Pieces compos'd according to the Taste of their own Nation; but they could not amuse us. They had better Success when they bethought themselves of conforming to the French Manners. If they express the Ridicule more naturally than we, the Spaniards see and perceive it much better. Lopez de Vega is the In Spain. first for the Stage. They reckon about 300 Comedies of his; for he had, says a good Critick (x), a vast deal of Wit, a sine natural Turn, and an admirable Facility: but his Genius was too extended to be subjected to Rules, wherefore he gave free Scope to it, because he was always sure of it.

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(x) Le P. Rapin Reflex, fur la Poetique.

In France.

Our first Comedies were far from being a regular Poem; they may be look'd upon as a Contexture of Buffoonry. Such is the Character of those which the good King Lewis XII. took pleasure to hear (y). They have not been thought worthy to be handed down to Posterity. And the Comedy of Patelin is the only one which has preferv'd to itself a Place in the Closets of the Curious. When the Field of the Belles Lettres began to be grub'd up, Comedy took a ferious Air, and appear'd with more Decency. Margaret of Navarre, who was call'd the Tenth Muse, and the Fourth Grace, amused herself with the Comick; and, by a false Zeal, treated of Subjects too venerable to have been exposed upon the Stage (2).

The Poets which flourished under the Reign of Henry II. running too much upon the Allegory, were mistaken as to the Nature of the Dramatick Poem. Some time after Malberbe, by purifying the Taste, made every thing that had appear'd upon our Stage despicable. our Comick Poets, finding nothing of their own could fatisfy the Audience, had Recourse to the Spaniards our Neighbours, and fet about the copying of their Comedies. Christian and Hurdi fignaliz'd themselves in this new Task. Corneille, who came after them, dignified the Drama. His Melite appear'd something divine, when compar'd with the Pieces

1635.

before it; and it was followed by the Veuve, 1635. and with the Galerie du Palais. In these three Comedies was feen, for the first time, that Simplicity

(y) Harangue du Chancelier de l'Hôpital, prononcé aux Etats d'Orleans, 1561.

⁽z) See in the Collection of the Poesies of that Princess the Comedies of the Nativity of our Saviour Jesus Christ, and of the Innocents, and of the Defert.

plicity of Action fo much extoll'd by the Ancients. The Author of Cid was not to be known in the Comical Illusion. The Menteur pleas'd yet more; all these Pieces were in the Castilian Taste. Mr. Racine form'd himself from greater Models; and his Plaideurs, compos'd in Imitation of the Wasps of Aristophanes, made us sensible of the Attick Salt, and of the finest Satire. This Piece was too fine for the gross of the Spectators, and did not succeed in its two first Representations. Moliere took from the French both the Persons which he acted, and the Manner of acting them. gan with his Comedy of the Etourdi, and he ended with the Malade Imaginaire. If in all his Pieces he excell'd all the Comedians of his Time, he furpass'd and outdid himself in his Tartuffe, and in his Misantrope. 'Tis there one finds a perfect Imitation of Manners, natural Images, and just and well-mark'd Charac-After the Death of Moliere, Renard, Bourfault, and the two Authors of the Grondeur (a), laboured for the Theatre with tolerable Success; but none of those Poets, far from furpassing, came up-fides with Moliere.

It must be acknowledged, that nothing is more hard to make than Comedy; as the Original, which it proposes to imitate, is expos'd to the Eyes of all the World. The Publick pardons nothing; it requires a perfect Like-

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During the Youth of the late King, Ballads, one of the prettiest Ornaments of Comedy, were carried to the greatest Persection. Mr. Benserade made the Verses which were recited in it; Verses of a kind altogether new, in which

(a) L'Abbé de Brucis & Palaprat.

1636.

1668.

1653.

1657.

were blended with the Characters of the Perfons who acted and represented: It is easy to conceive what a Delicacy these Allegories require, that they may be sharp without being bitter, and obliging without being insipid.

Opera.

If the Ballad pleases by its fine Allusions, the Opera charms the Eyes and the Ears by the Magnificence of the Show, and by the Beauty of the Musick. To pretend to examine this Poem according to the Rules of the Drama, were to expose one's felf, and to make a false Judgment. 'Tis neither in Aristotle, nor in Horace, that you must fearch for Principles, applicable to a fort of Poefy, which neither Horace nor Aristotle knew. An Opera is perfect, when to an excellent Concert there is join'd an ingenious Variety of the Scene; and the Machines, Chariots and Flights, which feem to difdain the Severity of Tragedy, throw in the Marvellous, embellish the Fiction, and Supply the Place of Probability.

'Tis doing too much Honour to the Opera, to derive it from the Greeks; its Origin is not so ancient. They who pretend, that the (b) OEdipus of Sophocles was sung from one End to the other on the Stage of Athens, as the Atys of Quinault is sung upon the Stage of Paris, do but ill understand the Melopæa of the Ancients, which, among the Greeks, was only a simple, melodious Declamation, which had indeed different Modes, but which was very different from musical Singing. In the Opera, the Poesy is subjected to the Musick, and the

Musician regulates the Poet.

The Italians invented this kind of Poem, and the Abbé Perrin introduc'd it into France,

Anno

⁽b) Ferrari, Abbé Gravina, &c.

This Show did not take at first. Anno 1650. The Persons of Buffoons, which Gilbert and Perrin employ'd in it by an over-scrupulous Imitation, did not please. Mr. Quinault, who fucceeded these two Poets, perceiv'd their Er-He had had no great Success in the Dramatick, but was more lucky in the Lyrick of the Theatre, which he brought to great Perfection. Mr. Despreaux (c), whom we can't fuspect of flattering him, acknowledg'd he had a particular Talent of making Verses fit to be fung. Besides, Quinault was naturally tender, and had an admirable Facility of conforming himself to the Ideas of Lully.

Nevertheless, it must be own'd, his finest Operas have had Cenfors: They would have Images and Painting in a fort of Poem, which requires Sentiments only. 'Tis but very lately they came to understand, that that which pass'd with them for a Fault, makes the very Merit of his Poefy. The Poets who fucceeded Quinault, have come far short of him; for amongst all of them, which over-run France without number, none are accounted of but Thetis and Peleus, Iphigenie and L'Europe Galante; which Judges equally efteem with the good Operas of

this charming Author.

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Tho' it be true, that the first Men were all Pastoral Shepherds; yet 'tis only by Conjecture that a Poefy. learned Wit of this Age (d) pretends, that the Bucolick is the most ancient of all Poesies. We fee nothing of this pastoral kind before the Idylliums of Theocritus, who flourished at Syracuse about the 119th Olympiad. In the most fertile Country of the World, and under the most ferene

⁽c) Ses Reflex fur Longinus.

⁽d) Fontenelle Difc. fur l'Eglogue.

ferene Sky, the Shepherds of Sicily, void of Ancients. Care, gave in to the Tafte and Love of Poefy and Mufick, which the Sweetness of the Climate naturally inspired them with: These are the Persons whom Theocritus introduces, after having dignified them a little. He copies from nothing but Nature, but neglects nothing that she has beautiful. And I don't see with what Reason some reproach him for an Air a little too Pastoral; for he treats rural Affairs with all that fimple Sincerity, and with all that Delicacy that the Greek Language was capable of. Moschus and Bion make their Shepherds more polite. Virgil, who had taken Theocritus for his Model, comes always up with him, and fometimes furpasses him. He is more exact and more judicious: His Character is Simplicity, Chastity, and Modesty. Virgil left no Successor. Calpburnius and Nemefianus wrote in a little way. Among the Moderns, Petrarch reviv'd the Ecloque in Italy in the 14th Century; but it was not carefully cultivated there: But in the 16th, Mantuanus, Pontanus, and Sannazarius, ran all the same Course. The first has nothing common with Virgil but his Country. The Ecloques of the Fishers of Sannazar have nothing of the Youth of the Author. The Publick has justly preferred them to all the other Works of this famous Poet. relli, Guarini, and Marini came afterwards. and followed the Taste that prevailed then. They wrote with Spirit, but in a Style not fo natural, and made their Shepherds too polite. The Italians, at that Time, were Admirers of the Pastoral Comedy; they had taken the Idea of it from the Tragedy of the Cyclops of Euripides; and it is, most probably, that which the Romans call'd the Satyrical Comedy.

Moderns in Italy.

As the Spaniards stretch all the Subjects they In Spain. treat, there is no Reason to be surprized that Louis de Gongara, and Camoens, pass over the Bounds of the Pastoral. Vida paints the Persons of his Eclogues after those of Virgil, whom he imitates with the most scrupulous Exactness.

Ronfard falls into the other Extreme. He In France. fashions his Shepherds like those of his own Country, and of his own Time: He leaves them all their Rusticity. The Cotemporaries of Remi Belleau found in this Poet a florid. fweet, and easy Style. Mr. d'Urfe in his Astrea may be look'd upon as an Original: Poem, in Profe, was the Fondling of all Europe for Fifty Years; it is a Picture of all the Conditions of the Life of Man; it leaves nothing to be wish'd for on the Score of Invention, of Manners. and of Characters. It is not a fabulous Picture, but whose Histories, covered over with an ingenious Veil, are founded in Truth. more the Pictures of Astrea are fine, the more are they dangerous. A great Bishop (e), affected with the Abuse which the most part of Writers made of Poefy, would gladly have brought it back to its true Use, and composed Dialogues in the Strain of the Song of Solomon. I commend so pious an Intention; but, not to dissemble, I find more Poefy in the Pastorals of Racan and the Eclogues of Fontenelle.

Satire instructs agreeably, by discrediting Satirick Vice in a sprightly, pleasant, and different Man-Poem. ner. It is a Poem the Greeks never tried, tho' their ancient Comical Writers gave the Hint and Idea of it to the Romans. Lucilius, Cotemporary with Terence, is the first

⁽e) Mr. Godeau dans ses Eglogues Chretiennes.

who wrote Satires. As he form'd himself from Aristophanes, he took from this Poet a great deal of Pleasantry and Delicacy (f); but, tull of his Model, he let a great number of Greek Words slip into his Writings, which made his Style extremely harsh. He is also found Fault with for the unhappy Talent of running on, in making a great many Verses all at once, without giving himself the Trouble to

polish them.

Horace, who flourished in the best Days of the Latin Poetry, imitated Lucilius, where he was worthy of Imitation, without falling into any of his Faults; he reprehended the Disorders of Rome with so good a Grace, and with that Art and Address, that he can never be too much admired. Perseus, who appear'd under the Reign of Nero, attack'd the Works of the Orators and Poets of his Age; he did not even spare the Emperor himself; but he could not guard against the bad Taste which began already to be introduced; and by affecting to be concise, he became obscure. He has a certain Air of Chagrin, which is displeasing. Juvenal wrote Satires after the Death of Domitian, more like a Declamer than a Poet. Marcellus throws out a great deal of Bitterness in his infolent Mimicks: He dar'd even to rally Mareus Aurelius and Lucius Verus in their Lifetime.

In the Time of these Emperors, Lucian, a Syrian by Birth, compos'd his Dialogues in Greek, full of strong, lively, and satirical Painting: They would have been more agreeable, at the Author had had less of the Buffoon, and more useful if he had less of the Atheist.

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(2) Sat. 10. v. 20.

⁽f) Hor lib. 6. Sat. 4. v. 7, 8. Sat. 10. v. 3.

I have spoken else where of the Satire of Seneca upon the Emperor Claudius, of Don Quichot de Cervantes, and of the Catholicon d'

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The Satire of Rabelais, the first that appeared in our Language, is the most learned and the most general of any was ever made (b). 'Tis Pity that Writer should have mix'd such corrupt and nafty Filth with fo fine and ingenious a Moral. Regnier has no more Regard to Decency than Rabelais; he scatters Ordure amongst his Verses; setting that aside, he is read as yet with Pleasure, notwithstanding his old Style. Tho' the Ancients are almost always superior to the Moderns, Mr. Defpreaux feems to have got the better of them with Regard to Satire. This illustrious Author is remarkable for fure and judicious Criticism, supported with all the Force, Vivacity and Harmony of Poefy; he has imitated the Ancients, but he has made their Treasures his own. Like them, he has always new Turns, and knows how to fay, what was never before faid in our Language. Foreigners have apply'd themselves but little to this Way of Writing. There is none, that I know, but the Satire of Thomas More against the Germans, that deserves to be taken notice of.

The Fable, or Apologue, is a Way of in-Fable. structing Mankind in Morality by the Means of Beasts and inanimate Things, which are made to speak. The Use of the Apologue is very ancient, and the Scripture gives us two Examples of it among the Israelites, viz. The Fable of Joatham, Son of Gideon (i),

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⁽b) Sorberiana, let. 12.
(i) Jud. cap. 9. v. 8.

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and that of Joash King of Israel (k). The Egyptians had too much Spirit to be ignorant of so ingenious a Way of Instructing; it is at least certain, that it was not unknown to the Greeks, who had learned all their Politeness from the Egyptians; for we have the Apologue from the Greeks. Æsop is the Father of it. He was a Phrygian; and if we may believe the Author of his Life, was born about the 57th Olympiad, 200 Years before the Foundation of Rome. He wrote his Fables in Prose, and Socrates (1) put them in Verse, according to the reiterated Order of the Gods.

The Apologue was in Esteem at Rome, from the Beginning of the Republick. It is well known, what Use Menenius Agrippa made of it in the first Sedition of the People, to reclaim and appeale the factious Citizens, who had retired to the Mons Sacer (m). It was either during the Life, or a little after the Death of Afop. It may be believ'd that Phadrus brought from Greece the Fables of this wife Man, and made them known to the Romans. This freed Man of Augustus translated them into Latin Verse with a fingular Elegance. and extreme Brevity. After Phadrus, Avienus turn'd the same Fables into Verse under the Reign of Theodorus (n). This Author is strong, and has some things above the Age he liv'd in

Year of Rome 261. bef. J. C. 494.

In Use a- The Moderns have imitated the Ancients in mong the this, as in a great many other things. I pass by

(k) Kings, lib. 4. cap. 14. v. 9.

(1) Plaut. Phædo. p. 492. Edit. Lat. Marc. Ficini.

(0); but he is far from that noble Simplicity

(m) Tit. Liv. dec. 1. 1. 2. (n) Vossius de poet. Lat.

of former times.

(o) Baillet jugement fur les poetes.

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by Foreigners and our own old Fabulists. M. de la Fontaine has effac'd and out-done them all. I stop at him: This excellent Writer joins to the good Sense of Æsop, a Gayety, an Air of Sincerity, and a jocund Erudition, which render him the Original, when compar'd with his Models; and which one would not have thought possible to have been introduced into this Way of Writing. Mr. Patru did not think our Poefy could adopt the Apologue; if Mr. de la Fontaine had followed the Opinion of Mr. Paru, the French Muses would have been deprived of one of their greaftest Ornaments. I have faid elsewhere, every Language has its Genius. The Fabulist, of whom I speak, has observ'd the Turn which agrees with ours. On the contrary, Mr. de Benserade would needs improve upon the Brevity of Phadrus, and reduce 200 Fables into fo many Stanza's of four Lines. These Stanza's are not fo much as read, while Fontaine's Fables are got by heart.

Elegy is of a Stile a little higher, but easy Elegy. and tender; it describes Love and Grief. The Heart alone must speak in this Poem; all in it is Sentiment. The Elegies of Philetas and Titaus are, for the most part, lost: And we Ancients, have none of the Ancients, but one of Callimachus on the Bath of Pallas. Tibullus, who came into the World under the Consulate of Hirtius and Pansa, is the chief of the Latin Elegiack Writers in the Judgment of great Masters. Propertius follow'd him very soon, and came near up with him, tho' nothing so soft and polite; however he has a good deal of Nobleness of Thought. Ovid, too much an Admirer of his own Wit, borrows sometimes the Language

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of Nature (p). His Elegies have something graceful and amiable in them. This Poet speaks of the smallest matters with a good Grace; tis true, he enlargens and diverts himself a little too much, and his Thoughts upon the Medals of Cæsar, which he had received in his Exile, would be admirable, if they were not so fine and pretty (q).

These three Poets liv'd in the Reign of Augustus; under the following Emperors the Elegiack Poem perished, and did not appear again till the Sixteenth Century, having very

little Resemblance of its first Origin.

The Moderns. I know nothing of this Kind above the middle Size, but Molza the Italian, Lochius a German, and Sidronius a Fleming. Mr. Menage rais'd Elegy from the low Estate in which it languish'd so long among us. This Poet, according to Mr. Segrais, knew the Justness and Harmony of Verse; if he has taken nothing out of his own Stook, he has at least a good Taste, and pick'd out the best of what others had said, and has put his Materials most artfully together. No body has out-done him, but Madame la Countess de Suze, whose tender and delicate Poesies seem to have been dictated by the Graces.

Epigram.

The Greeks.

We have faid enough of Poems, which require fome Length; let us pass on now to the least of the Works of Poesy. The Epigram is of this Number. The Greeks made it run upon a natural and delicate Turn of Thought; and they made the Grace and Beauty of it consist in a witty and reasonable Sincerity. It is hard to keep this Mean and

(9) De Ponto, lib. 2. ep. 8.

⁽p) Nimium amator ingenii sui, laudandus tamen in partibus. Quintil. inst. orat. 1. 10. C. 1.

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Middle Point; and I will confess with Reafon, that some Epigrams of the Antology, (as they call 'em) by being too simple, become insipid; and others, out of an Affectation to please the Taste and tickle the Fancy, fall into an empty and idle Subtilty. Catulius followed the Greek Manner; but, free of its Faults, he gave to all his Epigrams, unknown to the Romans till that Time, an equal polishing (r).

Martial, from a false Taste, which took place from the Time that the Purity of the Latin was corrupted, fought and endeavoured to flatter the Judgment by suspending it, and afterwards to furprize it by some quaint Word; that Fall to which, for ordinary, one don't give Attention, and which oft-times contains a double Meaning, makes all the Finery of the Epigrams of this Poet. Ancients have call'd it an agreeable Sophism (s), and we call it by the Name of a Point. To speak by Points is not natural Language; it makes one fall often into the Cold and the Childish: So those Epigrams of Martial which are good, are not those which are stuck full of Pricks, and where he plays upon a Word. If I am allow'd to fay what I think, the mere jesting Ralleries of this Poet please me as little, as the flattering and fometimes exceffive Praises which he bestows upon Domitian. I love that which instructs me; which concerns and affects me, and moves me. I prefer, for Example, to all his Plays tipon Words, which do nothing but tickle one, the Sentiment

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⁽r) Expression de Montagne, llv. 2. cap. 10. de ses

⁽s) Macrobius and Seneca.

Sentiment which he attributes to Arrias, because it touches me; and I could wish he had left none behind him but these few Epigrams, which commonly please all the Learned. I don't think we ought much to regret the Loss of those of Pliny (t). He adapted himself well enough to bright Thoughts and Sallies; and he had probably communicated both to Antonin, when he translated him.

In the After-ages, I fee nothing of this Kind can be compar'd to the famous Epigram of Ausonius on Dido. Every thing quadrates there admirably well; and it may be

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too much (u).

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As to the Epigram, the Moderns don't yield at all to the Ancients; the Italians have Wit, and that is the Fund of that Sort of Poefy. Sannazar has made the Eloge of Venice in fix Lines, which have much the Air of Antiquity; and which would be perfect, if they had not Fiction for their Basis. The Venetians rewarded the Author with Six hundred Crowns of Gold. Here are the six Verses:

Viderat Hadriacis Venetam Neptunus in undis Stare urbem, & toto ponere jura mari. Nunc mihi Tarpeias quantumvis, Jupiter, arces Objice, & illa tui mænia Martis, ait. Si pelago Tiberim præfers, urbem aspice utramque: Illam bomines dices, hane posuisse Deos.

The French, too indolent to undertake Works of long Labour; and who know bet-

(t) Plin. lib. 4. epift. 18. ..

^{(&}quot;) Infelix Dido, nulli bene nupta marito.
Hoc pereunte fugis; hoc pereunte, perie.

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ter than their Neighbours the Art of Thinking naturally, have made a great number of excellent Epigrams: Those of Mr. Santeuil for the Fountains of Paris, and of Mr. le Abbé Regnier for the Place de Victoire, have all the Spirit, all the Elegance, and all the Nobleness which the different Subjects require. Not to speak of Marot and of Gombaud; Maynard is the Man of all the French Poets who has compos'd the most Epigrams; and who has best succeeded in giving them the natural and fine Turn, which makes all their Beauty.

What the Epigram is among the Latins, the Madrigal. Madrigal is very night he fame Thing with us. The Italians, who are the Inventors of Italians. it, have confin'd it to express Tenderness; and Tasso and Guarini have done a great deal of Honour to their Country on this Head.

The Spaniards took this Kind of Poetry Spaniards, from the Italians: But both one and the other have affected too much Wit; and this Vice has spoil'd their happy and natural Talent.

Melin de St. Gelais, was the first in France French. who gave the Name of Madrigal to this little Poem; and our Poets have extended it to all kinds of Subjects.

Songs also hold of, and are somewhat of Songs. the Nature of the Epigram; and at the same Time have something of the Nature of the Ode, without being precisely either one or the other; it is this which distinguishes them from the Verses which the Ancients sung at Table, which were properly little Lyrick Poesses. But Songs have nothing affected as to the Matter, nor for the Turn, which may be infinitely varied. Mr. de Benserade and de Coulange, who

had both great Vivacity and Politeness, have compos'd Songs of a simple and easy Turn,

where all is New and Original.

Sonnet.

The Sonnet is the Despair of our Poets. A Sonnet without Fault, is worth a long Poem (y). But this Sonnet is yet to be wish'd for. Joachim de Bellay, Father of the Cardinal of that Name, taught our Poets to end the Sonnet by a Point; Maynard and Malleville gave more Dignity to it; Voiture and Benserade made it receive Sentiments.

Roundel.

The Roundel, originally French, don't please but by its Candor. Marot sirst carried the candid Sort to its Persection. Bonnesens subjected this little Poem to the Purity of the Language, which Marot had too much neglected. Voiture reviv'd the Roundel, which had already fallen; and this delicious Poet added new Graces to it. Mr. de Benserade, who succeeded to him, made an ill Choice of his Matter. The Fables of Ovid require a continued and supported Style; the Roundel admits only of Jest and Pleasantry.

The Art of POESY.

THERE are good and bad Poets, and every Thing don't equally please even in the finest Poem. It is therefore necessary to distinguish judiciously, and to examine the Works, even of the greatest Masters, according to the Rules of what is true, and what is fine. These Rules are unchangeable, being founded in Nature; and whatever is

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⁽y) Despreaux Art poetiq. chap. 2.

eonform to them must please every where, amongst all Nations, and in all Times. It was necessary therefore, in order to form the Mind with Regard to Poesy, to put Nature in a Method, and to reduce good Sense to Prin-

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This is exactly what Aristotle pretended to do in his Art of Poetry: He made use of the pure and delicate Tafte of the truest and better Sort of the People of Athens. That he might find out that which was generally approved of in Homer, in Sophocles, and in the other Poets; he examin'd and weigh'd the Reasons of the prevailing Taste and Approbation, and run up to the Principles themselves; and of all these Observations, he form'd that admirable Body of Precepts, fo necessary and proper for the understanding of the different Characters of Poems, and to lead on to the Perfection of Poefy. Horace did the same for the Romans, which Aristotle had done for the Greeks. He abridg'd the Doctrine of the Philosopher, and adapted it to the Understandings of the Roman Gentlemen, who at that Time apply'd themselves to Poetry.

There was nothing done of this Kind a good many Ages after; but when the Works of Aristotle were brought from Constantinople into Italy, after the Ruin of the Eastern Empire, there appeared in the 16th Century a number of Grammarians, who wrote long Commentaries upon his Art of Poetry. Franciscus Robertellus and Petrus Vellorius fell to work first to explain the Text. The first, in the Judgment of Giraldus (z), was one of the best Poets of his Time; and Balzac, who was not prodigal of his Commendations, speaks well of

⁽x) De poetis sui temporis.

the Notes and Remarks of the second (a). Castelvetro came afterwards; his Vanity, and the high Opinion he had of himself, made him contradict his Author; and that peevish Spirit sought not so much to illustrate the Readings of Aristotle, as to obscure the

Text of that great Man.

Vida, who was well versed in the Belles Lettres, studied to please, without any Thought or Care of Instructing. Picolomini translated that same Art of Poetry into Italian, and gave great Proof of his Ability, and of his being a good Critick, in the Notes which he wrote along with his Version. Franciscus Patricius, Andreas Gili, Riccoboni, Minturnus, and Vossius, commented Aristotle also at different Times.

But Patricius perform'd his Task as a Historian; Gili as a Rhetorician; Riccobini as a Logician; Minturnus as an Orator; and Vofsius as a Scholiast (b). None of all these Interpreters went far into the Meaning and Spirit of this Philosopher, nor follow'd out his System. With all these Helps Aristotle's Art of Poetry would have been very obscure, if Mr. Dacier had not brought Order out of the Confusion of the Commentators, and explain'd it in a learned and easy Manner, and without any Vanity. Julius Scaliger, one would think, ought not to be left among the Crowd of these Interpreters; his Art of Poetry contains a good deal of Learning, and a well digefted Reading; it has been admir'd by the Learned; yet I don't know if he is infallible in all his Decisions.

Poefy

⁽a) I ettres à Chapelain, liv. 3.

⁽b) Rapin. præ'at, des reflex, sur la poetique.

Poefy having undergone a Change among the Moderns, particular Rules became necessary for our Rhimes, for the Construction of the Verse, and for certain little Poems unknown to the Ancients. It is with this View, that new Arts of Poetry have been composed. One of the most ancient is that of Lopez de Vega; who, to justify the Order and Regulation of his Heroick Poem, and of his Comedies, ventured upon a Method quite different from that of Aristotle.

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In France, Mr. de la Menardiere, by the express Order of Cardinal Richelieu, undertook a great Work upon the Art of Poetry; but he executed only a Part of the Plan which he had laid down; for that which he published in 1640 regarded only Tragedy and Elegy. Mr. L'Abbé D'Aubignac confin'd himself also to the Dramatick Poem, with Regard to the Practice of the Stage. But Mr. Despreaux had a much more comprehensive Defign. Never did any fo small a Work contain fo many excellent Things as his Art of Poetry, which, founded on the Maxims of Aristotle and Horace, is perfectly adapted for our Use at present. 'Tis, without doubt, to him that we owe that good Taste, and that Justness in judging of Poetry, which is remarkable among the most Part of those who have had any Education.

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ELOQUENCE.

E LOQUENCE is the Art of Persuad-ing; by which one makes himself Master of the Spirit and Reason of another. This Art, to take it in all its Extent, is almost as ancient as the Use of Speech; for Eloquence mov'd Men to live in Society; to affift and instruct one another mutually; to submit to Laws; and feriously to consider and regulate the Affairs they had in common together. Whence 'tis plain there must be two Sorts of Eloquence; the one more simple, suited to familiar Intercourse or Conversation, and to the ordinary Dealings and Commerce of the World; the other of a higher Nature, and more proper for Discourses and Harangues in Publick (c), and upon folemn Occasions. 'Tis this fecond Kind, which is properly call'd Eloquence, and which makes the Subject of this Article.

Eloquence has always flourished amongst a free People. Greece was remarkable for it, before it was over-run by Alexander, his Descendants and Captains; as was Rome, before the Domination of the Cafars. But it was but little known among the Assyrians and Persians, who were always under despotick Government; and it is observed of the Egyptians, that, to evite the Consequence of a salse Eloquence, they rejected the True (d).

On the contrary, among the Greeks, who had all of them a Share in the Government,

(c) Cic. off. 1. 1. c. 37. 1. 2. c. 14.

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⁽d) Loffuet. dife. fur l'hist universelle, part 3. art. 3.

To speak well, was the Way to raise them to Honour and Riches. Therefore it is no wonder that Eloquence was so much studied in Greece, nor that Greece abounded with Men so much samous for it. For since Eloquence was the Means of raising the most private Man to the most shining Figure, every private Man who had any Ambition, and considered himself as the Maker of his own Fortune, and that he might possibly raise himself to some high degree in the State, it is to be presum'd, would use his utmost Endeavours, and take the most likely Way to come at it; and there is no Way more likely than Eloquence in a popular Government.

But it was principally at Athens, that it shin-

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Pericles, through an immoderate Ambition of fovereign Power, thundered, bore down all before him, and put all Greece in a Commotion. He was the most eloquent Man of his Age. It was commonly said, that the Goddess of Persuasion sat upon his Lips; and that even when he had the worst of the Contestation, he persuaded the Audience, contrary to their Senses and Sentiments, that he had carried the Victory against his Adversary.

The Power of the Eloquence of Pericles lay in the Strength of his Thoughts, and in a lively, close, and extremely concise Turn of Expression. Alcibiades and Thucydides (e) followed him in that. There was more Thought than Words in their Speeches. Lysias appeared afterwards; he had the Force of Pericles, but was not so concise. Isocrates charm'd the Athenians by his round Periods and Cadence, and began to make them sensible of that sweet Har-

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mony which ravishes the Audience. Every Orator has a distinguishing Character of his own. Plato, in the Apology of Socrates, display'd an Elegance and Sublimity of Style, Supported with great Solidity of Judgment. Hyperides had a most fingular Talent for painting the Manners, and affecting his Hearers (f). He was Cotemporary with Demosthenes, furpass'd him in Elevation of Genius, and by the Vehemence of his Eloquence. This last is sometimes fo concife, and fo nervous, that there is nothing to be found in his Harangues either too much or too little. That which distinguishes him is the Violence of the Emotions he excites. 'Tis the Rapidity of his Course, by which he bears down and carries all before him: And, to fumm up his Eloge in one Word, his Oration for Ctesiphon answers to the Idea one ought to have of perfect Eloquence. In this Cause, he had Æschines not so much his Rival, as Enemy; more copious indeed, and ornamented, but not so vehement, and to whom Nature had fupply'd what he wanted of Art and Study.

Lycurgus, Dinarchus, and Demades liv'd at the same time; for the Age of Demosthenes was that of Eloquence (g). Tho' they had not all the same Genius, they agreed in the Taste of the True and Simple; and equally avoided all Excess and Affectation. After the Death of these great Orators, Eloquence took insensibly another Turn; something, one can't say what, soft and effeminate succeeded to that natural Air and Beauty of Eloquence without Disguise:

A florid, ornamented, and wanton Style took place of the masculine, grave and austere; as if it had been necessary to say something to di-

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(f) Longinus of the Sublime, ch. 8.

⁽s) He flourished in the time of Philip and Alexander.

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vert, when they could say nothing to move and persuade the Audience. Demochares, Nephew of Demosthenes, was the first Cause of this Evil; and Demetrius Phaler aus took to the same way. As Demetrius excell'd all of his Time in Politeness, it was easy for him to prescribe and set the Example, and he was as readily sollowed; so he open'd a new Way, where he lov'd rather to march at the head of his new Disciples, than to tread in the Steps of his old Masters (b).

The Declamations, that is, Discourses of pure Ostentation, which Masters took in their heads at that time to introduce into the Schools, contributed very much to enervate the Genius. But when Eloquence went out of Athens, and pass'd over into Asia, it lost very soon that Justness, which allows of nothing extravagant nor useless; and being spoiled by the Asiatick Vanity and Bombast, it fell from being perfect, into the indifferent middle fort,

and from that into the most faulty (i).

These different Ages of the Greek Eloquence, The Resare to be found again in the Roman. In the mans. first Africanus there is to be observed an Air of Greatness, which struck all at once, and procured him Respect; and a natural Air, which inspired Considence; Talents which he knew how to make use of, and which served him to good purpose, when he received the Deputies of the People of Spain (k), and in that samous Conference which he had with Asarbal, at Syphan's Palace in Numidia (1). With what Authority does Scipio speak to his Soldiers,

⁽b) Cicero de Orat. 1. 12. c. 10.

⁽i) Quintil. Inft. Orat. 1. 12, c. 10,

⁽h) Liv. Decad 3. 1. 6. (l) Decad. 3. 1. 85

Soldiers, to appeale their Sedition (m)! and with what Liberty does he reprove Masinissa on the account of Sophonisha (n)! The Eloquence of the Gracchi was always conform to their Character; it was vehement, and fit for bringing over the Audience to the Designs of the Orator.

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In these ancient times, the Romans had no Art nor Method, but spoke as Nature and Genius prompted; but afterwards being taught by the Greeks, they carried the Art of Speaking to the highest Point of Perfection (0).

Crassus (p), Antonius (q), Casar (r), and the two Catuli (s), acquired great Glory. They were all great Orators, but had different Turns of Eloquence. Crassus was rich and fluent in his Speeches, and wanted not his Jest and Gayety. The extemporary Harangues of Antony were as regular, as if they had been long thought of and prepared (t).

The two Catuli spoke the Language so purely, that they seem'd to be the only Persons who could speak Latin (u).

Cæsar spoke with great Spirit, and in an agreeable Manner; he could be pleasant upon a serious Subject, and had the Art of being sweet when he talk'd of melancholy Matters.

Sulpitius and Cotta were inferior in Age to these Orators, but of equal Merit. They made themselves admir'd; the one by the Force of his

- (m) Ibid.
- (n) Decad. 3.1. 10.
- (o) Cic. de Orat. 1. 1. n. 14, 15.
- (p) Lucius Crassus.
- (9) Mark Anthony, the Grandfather of the Triumvir.

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- (r) It is not be who overturn'd the Republick.
- (s) The Father and the Son.
- (t) Cic. in Brut.
- (14) Cic. Orat. 1. 3. Offic. 1. 1. cap 37.

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his Pleadings, the other by the easy Graces which were scattered all over his (x).

Cicero, in his Youth, preferred the Manner of Sulpitius, and form'd himfelf upon that Model, which, with a close Application to that Study, shew'd to what Point he would carry the Art of Speaking one Day. He began to make himself known by his Oration for Roscius; and that which a long time after he made for Milo, is the most perfect Piece which came from the Roman Bar. As Demosthenes brought Eloquence to Perfection among the Greeks, fo did Cicero among the Romans; and these two great Men arrived at the fame End by opposite Ways. The one is short and concise, the other ample and exundant. The first holds his Adversary close, and presses him by the Vivacity of his Style; the fecond, that he may fight with Advantage, manages his Forces, and bears down and oppresses his Enemy at last by the Solidity and Weight of his Discourse. You can abridge nothing of the first, and you can add nothing to the last. Demosthenes has more Art, Cicero more Genius; the one stuns the Audience, the other touches it; the first forces you to yield, you love to furrender to the fecond. Without pretending to determine the Preference between these two Orators, one may fay, that the Advantage which Cicero feems to have over Demosthenes may be reduc'd to this, that Cicero was a Master of fine Rallery, could give an Air of Importance to the most ordinary things, and embellish those which are the least susceptible of Ornament (y).

About

⁽x) Cic. in Brut

⁽y) Quintil. Inft. Orat. 1. 10. cap. 1. & Longin. Subl.

About the same time there were some other famous Orators; as Celius, Calvus, Brutus, Assinius, and Corvinus. Celius savours too much of Antiquity, says the Perrault of his Age, in the samous Dialogue on the Orators. In my Opinion, nothing can recommend Celius more; for it must be observed, that Aper, the Adorer of the Moderns, sets the Reign of Vespasian, in this Passage, in opposition to the End of the Republick, and to the Beginning of the Reign of Augustus. From the Reproaches which passed between Cicero and Calvus, 'tis easy to infer, that Calvus had not so much Force and Vigour as his Rival.

As for Brutus, his Philosophy marr'd his E-loquence a little. It kept him always too close

to the folid.

Asinius and Corvinus had a great deal of Force in their Harangues; they are look'd upon as the last of the Romans, who deserv'd the Title of Orators.

After them, there were many great and learned Pleaders at Rome, but none of 'em truly eloquent. Under Tiberius and his Successors, the Corruption of Manners infected the Genius; the Love of Pleasure gave an Aversion to Study, and bad Education substituted a false, in the room of true Eloquence. To which the Sophists, whose Lives Philostratus and Eunapius have written, contributed not a little by their Declamations.

Seneca spoil'd the Taste entirely by his quaint Thoughts. He had a great Name, was a Man of Fashion, which entitled him, in some measure, to introduce his bold Novelties. He brought in vogue a short and quick way of expressing one's self, not by connected Discourse. His Turns were ingenious rather than natural;

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his Style sententious and full of little Niceties and Witticisms void of Judgment; his Discourse starting and violent, his Paintings often imperfect, always false, a great deal of Subtilty, little Delicacy either in Thought or Expression.

Seneca communicated his Faults to his Imitators, without sharing with them any of the good Qualities he might have had; for he was as much superior to these Copiers, as he himself was inferior to the Ancients.

The most part of Men have in themselves the primitive Ideas of good Taste. They want only to awaken them, and to extricate them from Confusion.

Quintilian was very sensible of the Depravity and Corruption of this new kind of Eloquence; but being unable to extirpate it, he stood up against the Abuse was made of it; he was at the pains to acquaint his Disciples with the Ancients, the true Sources of Eloquence.

Pliny's Panegyrick gives us the Image of E-loquence as it appear'd at that time: It surprizes with its Splendor, but it offends and dazzles. I should like the Piece better, did it shine less and more agreeably. In short, it is a labour'd Performance, but tiresome.

Notwithstanding the Endeavours, under the Reign of Trajan, to support the Reputation of Eloquence, it dwindled, and grew worse under the succeeding Emperors. The different Degrees of the Depravation of Taste is very perceivable in the Harangues of Mamertinus, Eumenes, Nazairus, Pacatus, Cassiodorus, and a great many others. And this Study and Enquiry might be of good use, was it made to purpose.

When the Spirits which had slept so long, and Learning began to awake in Italy and Spain,

there.

there were some Historians and Poets to be seen, but no Orators; and I even doubt, if ever there have been Orators among them.

The Italians think too prettily and merrily.

Eloquence requires Simplicity.

The Spaniards over-stretch, and run out into Extravagance. Eloquence admits nothing but what's natural.

In France, the Art of Speaking was very foon infected with the Disease and Faults of our Neighbours. It continued childish and rude for a long time. Its Improvement is owing to the French Academy. 'Twas Balzac and Voiture, who, by purging our Language, made Eloquence recover from its weak Estate. They had a great deal of Spirit, fays a famous Academician (z), but nothing more opposite than their Characters: The one always carried to the Sublime, the other always to the Delicate and Tender: The one studied to be admir'd, the other to make himself belov'd. Their Faults have pass'd a long time for good Qualities. Now-a-days we are shock'd at the Hyperboles of Balzac, and could wish that Voiture had written with greater Purity, and that he had put fewer pretty little Conceits in his Alcidalis.

(z) Mr. L'Abbé Olivet, Hist. de l'Acad. Franc. T. 2.

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ELOQUENCE of the FRENCH BAR.

WE have not the same Reason to talk of our Bar, which the Greeks and Romans had; for I doubt if the Eloquence of the French Bar can go farther back than the middle of the 16th Century. The Epoch is from Jean Baptiste de Mesnil, Advocate of the Parliament of Paris, afterwards Advocate-General, the first who introduced the Custom of making Harangues at the opening of the Parliament (a).

A little time after, Jacques Mangot followed the same way, and mounted to the same Dignity: He had a sound Judgment, clear Thought, and a neat Expression, without Disguise or Affectation (b). Paguier (c) only thinks him too

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To Mangot succeeded Simon Marion, who flourished in the times of Henry III. and IV. In the following Reign, Guillaume de Vair gave a new Lustre to Eloquence. Before this Magistrate, the Pleadings were so overloaded with Citations, that one could not see the Ground of the Cause; and this was thought to add to their Eloquence: A Fault which Mr. Brisson, a Man otherwise esteemable, had introduced. Mr. Du Vair understood, that, according to the Example of the Ancients, who never or very seldom made Citations, one ought to speak as depending upon no Authority, but the G

⁽a) He died Anno 1569.

⁽b) Mr. du Vair, de l'Eloquence Françoise, liv 2.

⁽c) Recherches, liv. 4 ch. 17.

Strength of his own Reason, as they did; but that the Orator might make use of the Thoughts of Authors, without stuffing their Pleadings with their very Words and Places whence they

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took them (d.).

The too frequent Allusions to Passages of Antiquity, which were not so well known; and the continual Metaphors which threw a great deal of Obscurity upon the Discourse, wanted also to be reformed. The Advocates who made use of them, thought to make themselves esteem'd, and remarkable for their Erudition, and fancied the Sublime to consist in this Allegorick Style. To this they added the playing upon Words, and nice Antitheses. The Orators delighted in these things, and thought them Flowers of Eloquence.

Monf. Le Maitre guarded against all these Faults, and his first Appearances presaged happy Consequences for Eloquence, if he had not preferred the fweet Satisfaction of a Religious Solitude, to the vain Charms of a perishing The famous Jerome Bignon afterwards illustrated the Bar by a prodigious Extent of Knowledge. He knew almost every thing that Cicero requires in an Orator. After this great Magistrate, but in a Post not so high, Mr. Patru was one of the most eloquent Men of his Age. He was not vehement when he spoke, but by polishing over and over the Pleadings which he has published, he has made the Style of 'em less strong, less easy, and not fo much like that of an Orator, as it was then when he pronounced them (f). He was the first

(e) De Oratore, 1. 2.

⁽d) Mr. Perrault, Eloges des Hommes illustres, tom. 1.

⁽f) Lettres de Mr. Maucroix.

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first who made an Address of Thanks to the French Academy, when he was receiv'd a Member; and his Discourse took so well, that the Society order'd, that all who should be received afterwards should follow the Example.

Certainly these great Men would have rais'd themselves to the highest pitch of Eloquence, if the Eloquence of the French Bar had been capable of it; for the Practice of the Bar, which is fo hard and puzzling in its feveral Parts, must exhaust a good deal of Spirits. How should the Time they have bestow'd on the Knowledge of the Laws, Customs and Ordonnances, be redeemed and recompensed by the Study of Eloquence? Could they even have time to form their Pronunciation, which the Ancients call the Eloquence of the Body, and without which there is no perfect Orator? In short, the Subjects they treat are so common, and fometimes fo low, that they rarely admit of great Movement, and violent Passions.

The ELOQUENCE of the PULPIT.

LOQUENCE seems to have repair'd by the Pulpit the Loss it made at the Bar. The Truths which the Christian Orators teach are so sublime; the Mysteries they declare are fo venerable; they speak with so great Authority, that they are eafily acknowledged to be the only Trustees of the true Eloquence; that Eloquence, I fay, which is independent in its own Nature, Mistress of Hearts, which em-

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ploys the most powerful Means and brightest Figures to move them. This Eloquence shines in the facred Books, and chiefly in the Writings of the Prophets. In general, the Prophets have all of them a certain Greatness; but if you attend to their different Characters, you shall find Esay elevated, Feremy pathetick, Ezekiel terrible, Daniel tender. 'Tis from these Greek Fa-Fountains so pure, that the Holy Fathers have fuck'd their Eloquence; for what was wanting to St. Bafil and St. Chryfostom, to make them truly eloquent, but a Diction as elegant as that of Demosthenes? They knew how to make choice of the strongest Proofs, and to range em aright. They fuited their Discourses to the Capacity of their Audience; and, in proportion to their Necessities, they employ'd fometimes lively Images, and fuitable Figures; they understood how to convince, to move, to terrify, and to render themselves amiable. Moreover, if their Elocution has not that Turn of Delicacy, that Exactness to be wish'd for, it ought to be confidered, that the Fathers were Pastors very much occupied; who, without Preparation, spoke familiarly, and fought only to inftruct, whether by explaining the Scriptures in Order, or by chusing the most important Subjects.

The Latin Fathers.

The Latin Fathers followed the same Method. St. Cyprian, St. Leon, St. Ambrose, are justly reckoned the most eloquent. They are remarkable for a great deal of Art and Nobleness. The Sermons of St. Augustine are in a more fimple Style; for he preach'd in a little Town to Husbandmen and Merchants; beside, the Deluge of the Barbarians had at that time altered the Taste, and the Contagion made such

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ich is, Progress, as quite extinguished Eloquence in the West.

After some Ages, the Arts were reviv'd; but Eloquence shone only with falle Light. We hardly find three Orators in the Space of two hundred Years. Savanarola at Florence, Philippi de Narni at Rome, and Lewis de Granade at Seville; and they ow'd their Success less to the Justness of their Discourses, than to a certain pathetick Air, which made their Audience tremble.

In France, three great Faults infected the In France. Pulpit for a long time, viz. No Order in the Defign, a great Oftentation of profane Learning, and low Witticifins, which they thought necessary to procure Attention. Pere Senault, of the Oratory, substituted an exact Method in place of those Disorders, viz. The Doctrine of the Scriptures, and Tradition, and a Gravity fit to make the Ministry of the Word respected(g). He was admir'd for that Perspicuity and Neatness of Style, which made the most simple and ignorant conceive the most sublime and mysterious Truths. Pere Lingendes, his Rival for Oratory, excell'd in the Pathetick; both of 'em made excellent Scholars, who made a greater Progress than their Masters. From the School of the first, came the Fathers Le Boux, Masearon, Soanen, Hubert, La Roche, and a great many others.

At the fame time two great Orators appear'd, but of a different Character.

Allow me here to make use of the Words of an able Critick, in their Commendation. "That which reigns in Mr. Flechier, says Mr. "Rollin (b), is a Purity of Language, an

(g) M. Perrault, Eloges des Hommes illustres, Torn. 1.
(b) Maniere d'Enseigner & Etudier les Belles Lettres, & c. Liv. 3. ch. 2. Art. 2.

Elegance of Style, a Richness of brilliant and florid Expressions, a great Beauty of Thought, a sage Vivacity of Imagination; and, which is the Consequence of it, a wonderful Art of painting Objects, and as it were of making them sensible and palpable. Mr. Bossuet, on the contrary, little mindful of the light Graces of Discourse, and sometimes even neglecting the straitening Rules of the Purity of Language, tends to the Great, to the Sublime, and to the Pathetick. It is true, he is not so equal, does not suffain himself so well; but, in recompence, he carries, he ravishes, and transports."

Here is another kind of Eloquence which has its own Merit. Pere Bourdaloue made it his Bufiness to set Reason in its true Light. He first laid down his Principles; and, after having proved them, and deduced a general Proposition, he descended into a Detail, where all the Conditions of Man were naturally represented.

It is more easy to form Images, than to follow a Course of Reasoning: The young Preachers, whose Imaginations are brisk and prevalent, imitated that which the Method of Pere Bourdaloue offer'd them as most easy, and they multiplied their Pictures infinitely: The wiser Sort did not allow themselves to be led by that Example; they put a stop to that growing Fault, and being persuaded, that, in order to move and affect, one must go straight to the Heart, they took care to lay aside all foreign Ornaments; and studied only to make use of the strongest Reasons, in order to persuade; and the most powerful Motives, in order to touch and affect.

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The Art of RHETORICK.

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PRECEPTS, fays Cicero (i), have not made Men Eloquent; but eloquent Men have given occasion to Precepts, by the Observations which have been made on their Discourses. The Body of these Observations carefully reduc'd, and united under certain Heads, is call'd Rhetorick: The Origin of this Art must be refer'd to the Greeks.

Isocrates and Isaus open'd their School at Of the Athens, and made excellent Scholars. We Greeks. learn from Plutarch, that Isocrates and one call'd Alcidamas, had compos'd fome Books of Rhetorick (k): These Books have not come down to us; and Plato is the first, who has left us in his Phadrus fome general Rules on Eloquence. Aristotle afterwards compos'd his Books of Rhetorick according to the Principles of Plato; without tying himself to the Method of his Master, he prefer'd the Method of the Geometricians to that of the Orators, which Plato had follow'd. Demetrius Phaleraus, Hermogenes, Dionyfius Halicarnassaus, and Longinus, who appear'd at different times, confin'd themselves to Elocution: But Demetrius touch'd nothing of it but the Delicacy; Hermogenes, the different Characters; Dionyfius, the Ornaments, and Longinus the Sublimity (i). Longinus made a Treatife of the Passions, G 4 which

(i) Orat. 1. 1. n. 146.

⁽k) Isocrates was born, according to Petavius, An. M.

^{3548.} If eus and Plato were his Cotemporaries.
(1) Rapin Compar. de Cic, & Demosth.

which we have loft; and, in the Judgment of the Criticks, he furpasses all the Rhetoricians, for good Sense, Erudition, and Eloquence.

Of the Romans

They were the Greeks, who taught Rhetorick at Rome in its first Ages, and they did it in their own Language. Plotius, originally of Gaul, was the first who chang'd this Custom, and gave his Lessons in Latin: He liv'd in Cicero's time. His School was much frequented; and after fome Trouble and Contradiction he met with from the Cenfors, his Manner was approv'd by publick Authority (m). Cicero, in his Youth, had written some Tracts of Rhetorick; but having afterwards come to great Reputation for Eloquence, he undertook to revise those Subjects, at the Defire of his Brother Quintus, and to treat of them more politely, and with more Art (n), which he did in his three Books Of the Orator, an admirable Work; where the Dryness of the Precepts is mix'd with all that is agreeable of the Roman Urbanity.

Rhetorick, an honourable Profession, and at first exercis'd by able Orators, became a venal Profession under the Reign of Vespasian, who appointed Wages for those who taught Eloquence (o). Quintilian was the first who receiv'd them. After he taught the Roman Youth for Twenty Years, he compos'd his Institutions; in which, beginning from the Cradle with the Orator he defigns to form, he conducts him through the different Degrees, to the highest Point of Eloquence.

^{&#}x27;(m) Suetonius de claris Rhetoribus.

⁽n) Orat. 1. 1. n. 5.

⁽⁰⁾ uet on. 1. 8. c. 18.

ELOQUENCE.

The Moderns have copy'd after Cicero, as their Author; and he has furnish'd to Cavalcanti, to Barthius, to Soares, and to Voffius and many others, all the Precepts Learning with which they have enrich'd their This Method is the Books of Rhetorick. most easy; but I doubt if it be the most judicious. Why? Because the Rules of the Art of Oratory are founded in Nature, and are the fame among all Nations, and in all Ages; and that it is needless to labour on a Subject which has been exhaufted by the Ancients: They ought therefore to have lay'd afide the Precepts concerning Invention and Disposition, so universally known; and to have restricted themselves to Elocution alone, which varies according to the different Genius of the Languages. It's upon this Plan that Mr. Patru ought to have dress'd his Rhetorick: He should have decided, according to the Measure of our Periods, and the Figures which are peculiar to the French Diction. This was a Project worthy of a Man who fpoke his own Language fo well. is to be wish'd, some learn'd Man would discharge Mr. Patru of his Promise, and indemnify the Loss of the Publick, by its los fing fo fufficient an Academician.

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HISTORY.

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HISTORY preserves the Memory of great Events. These Events may be transmitted to Posterity two Ways; either by publick Monuments, or by Writing: Of these Two, the First is the most simple, and the most natural, and consequently the most ancient: Therefore we find it made use of among all Nations.

Historical Monuments.

Altars
and
Temples.

These Monuments are of several kinds. I put Altars and Temples in the first Rank: So the Altars which Abraham built at Sichem, and near the Valley of Mamre, were a Proof to his Posterity of the Promises which God had made to this holy Patriarch, in two diverse Apparitions (p). So the Temple of Jupiter Feretrius recall'd to remembrance the Victory of Romulus over the Ceninenses; and that which the Consul Attilius rais'd to Jupiter Stator, was an illustrious Monument of the Defeat of the Samnites near Luceria (q). The Feasts had a Tendency to the same end.

Feasts.

The Passover, for Example, made the Israelites remember their Coming out of Egypt. The Capitoline Plays had been instituted in memory of the Delivery of the Capitol, when besieged by the Gauls, Ann. Rom. 364 (r).

Trophies.

s. I put Trophies in the third Class. They were Pillars, which perpetuated the Memory of Conquests: Of this kind are the Pillars of

⁽p) Gen. c. 12. v. 7. c. 13. v. 18.

⁽⁹⁾ Liv. Decad. 1. 1. 1. & 10.

⁽r) Decad.1.1.5.

of Hercules, and those of Sesostris, King of Egypt.

The Greeks, as Thucydides tells (s), engrav'd the Treaties of Peace and Alliance on

Pillars.

The Ancients gave new Names to Places; and they gave Sirnames to great Men; it was, to afcertain the most famous Facts. Hence is known the Origin of Seleucia, Anti-

och, Apamea, and Stratonica.

This Custom pass'd from the Greeks to the Romans, who often mark'd the Epoch of the Establishment of their Colonies, by the Names which they impos'd on the Towns (t). At Rome itself, there was to be seen in its third Region, the Sororium Tigillum; that is, the Yoke under which the last and surviving Horatius expiated the Murder of his Sifter; and also in the second Region, the Quarter of the Albans; that is, that Part of the Town whituer they were transported after their own Town was demolish'd. As for the Sirnames of the Romans, they very often related to fome Victory, of which they were the Recompence. Thence the Sirnames of Africanus, Afiaticus, Achaicus, Numidicus, given to the Scipio's, to Mummius and Metellus, in memory of the Ruin of Carthage, of the Defeat of King Antiochus, and of the Victories over Jugurtha. To go farther back; Cn. Martius took the Sirname of Coriolanus, from the taking of Corioli, a Town of the Volsci; C. Manlius took that of Capitolinus, from the Defence of the Capitol; and M. Manlius was

(s) Histor. 1. 5.

⁽t) Aquæ Sextiæ, Colonia Agrippina, Cæsarea Augusta.

firnam'd Torquatus, from a Collar which he

took from a Gaul in a fingle Combat.

I pass over a great many other Examples, that I may come to the last kind of historical Monuments, which is neither less ancient, nor of less Extent; and that is, Verses put in a Song. Those who are vers'd in History, know, that in all Ages the Memory of great Affairs was preferv'd by Songs. The Hebrews and Greeks made use of the Lyrick Poefy for this purpose. Carmenta in Latium, as Dionyfius of Halicarnasseus reports, compos'd Hymns to the Praise of Il-Instrious Men. Casar (u) observes, that among the Gauls, the Druids or Masters made the Youth, who were under their Care, learn by heart a great Number of Verses. According to Tacitus, the Germans fang the Exploits of Arminius: Simler fays, that the ancient Swiss preserv'd by their Songs the Memory of the Victories which they had obtain'd. is observ'd, that that Custom remains at prefent in the North of Europe, and in a Part of America.

Thus we see, that the Memory of great Actions was perpetuated, before the Use of Letters. After the Invention of Writing, polite Nations made use of it to fix Facts; and they began to write Annals or Histories.

The Hebrews are always first in Date for the Arts; and it is among them also, that we find the most ancient Historians. Some Authors (x) make Moses Cotemporary with Inachus

(u) Bell. Gall. lib. 6. cap. 2.

⁽x) St. Justin, Athenagoras, Tatian, Josephus, Porphyry.

Inachus (y); others place him only in the Time of Cecrops (2), according to the Calculation of Eusebius: But whatever Date be affign'd him, it's plain he preceded all the Fables of the Greeks. He compris'd in the Pentateuch the History of the Israelites, from the Creation of the World to their Establishment in the Land of Promise, which comprehends the Space of about 2500 Years. This History was afterwards continu'd, by the Order of Joshua and his Successors: For it was not permitted, that any body, at his own Pleasure, should take upon him the Quality of an Historian: None but the Priests were allow'd to write History; and History bore the Character of its Authors, who were wife, and ferious grave Men; old Men, of great Experience, and well inform'd and instructed in Business.

It was just so with the Phanicians, the Chaldeans, and the Egyptians. Their Priests being separated from the World, confin'd themfelves to the Service of God, to the Study of Philosophy, and the Reduction of Facts into the Form of History. And, to begin with the Phanicians, Porphyry (a) tells us, that Sanchoniathon made up his Annals, part- Phanicily from the Memoirs which were kept in ans. the Temples, and which were communicated to him by Jerombala. These Annals of Sanchoniathon, written in the Tyrian Language about the Time of the Trojan War, were translated into Greek by Philon de Biblos, under the Empire of Adrian. Neither the Original, nor the Version is now extant, except

⁽y) 675 Years before the War of Troy.

⁽x) 275 Years before the War of Troy.
(a) In Eufeb. præp. Evang. 1. 10. c. 3.

except some few Fragments, which we read in

Eusebius.

Chaldeans.

nothing of it more ancient, than that which Berosus address'd to Antiochus Soter, King of Syria. This Berosus was a Priest of Belus, according to the Testimony of Tatian; and his Work contain'd the History of 480 Years, from the Beginning of the Æra of Nabonassar, down to his own Time. I say nothing of the Assyriacks of Abydenus, and of Nicolas of Damascus. The Age of the First is not known; the other liv'd very late, under the Reign of Herod the Great, King of Judæa; both of 'em had extracted from the same Originals; I mean, the Annals of the Pontiss.

Egyptians

It is probable enough, that the two Macarius's, Authors of all the Institutions of the Egyptians, had not neglected their History; At least, it is certain, that the collecting of Facts was among them the principal Occupation of the Priests. They retain'd that Custom, after they had lost their ancient Manners; and it was Manethon, an Egyptian Priest, who in the time of Ptolemy Philadelphus, put the History of his Country in Greek, and which he carry'd as far down as the 16th Year of Artanernes Ochus, King of Persia, the 2d of the 107th Olympiad.

Josephus, Eusebius, and Georgius Syncellus, have preserved to us some Fragments of these Authors, which they had intire in those Days, the Loss of which we cannot regret enough: For in an Age so clear-sighted as this of ours, 'twould be in vain to stand up for the Imposture of the famous Annius of Viterbo, who about the Middle of the Fisteenth

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Century pretended to revive both Manethon and Berosus. This Cheat, which formerly deceiv'd some Learned Men, could impose upon no body now-a-days, but upon those, who might imagine that the Honour of a certain venerable Order of the Church was concern'd, and therefore oblig'd to espouse the Cause, and defend the Monk of Viterbo (b).

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The Phanicians and Egyptians brought the Use of Letrers into Greece, and gave that Nation a Tafte for Hiftory. The Greeks left the Care of it to their Poets, whom they look'd upon as the inspir'd Prophets of the Gods, and as the Ministers of their Religion; of the Number of whom were Sifyphus of Coos, Corynnus, Dares Phrygius, and Dic-They flourish'd in the Time tys Cretenfis. of the Trojan War; and their Writings ferved afterwards as a Foundation for the Iliad and Odyssey. Let us lay aside Prejudices. Homer in his Poems did not write Romances invented according to his Fancy and Pleasure; he conform'd his Narrations to the publickly receiv'd Accounts and vouch'd Evidence, and follow'd a Tradition as yet perfectly fresh.

At length, the Fables which Antiquity had confecrated, were abandon'd to Poefy; and the Truth, which was veil'd over by those ingenious Fictions, was discover'd, and stript of these Coverings and strange Ornaments, and made to appear naked, by the finest Writers, in a continu'd Discourse.

The first, who, according to Strabo (c), wrote in Prose, were Cadmus of Miletus, Pherecydes, and Hecateus. These, by keeping

(c) Geogr. Lib. 1.

⁽b) Vossius de Hist. Græc. lib. 1. cap. 1. 13,14.

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ing to the Poetical Turn, retrench'd only the Measure of Verse. The Criticks make them cotemporary with Cyrus. Acufilaus and Hellanicus came after; these Historians, nothing folicitous to adorn their Style, thought all its Merit confifted in being short and clear. They contented themselves, by leaving behind them Memoirs of Times, Places, Perfons, and their Actions. Herodote wrote Hiflory with Elegance. Thucydides excell'd all who had gone before him, in Nobleness of Style. Xenophon the Athenian, and Philstius of Syracuse, form'd themselves from those two great Models. Ephorus and Theopompus appear'd much about the fame time; who being educated in the School of Isocrates, made the Eloquence of their Master shine in their History: The Opposition of their Characters made it be faid of them, That the one had need of a Spur, the other of a Curb. They liv'd in the Reign of Philip, King of Macedon. Callisthenes, Disciple of Aristotle, and Companion of the Travels of Alexander, wrote the Life of that Prince. not fo much like an Historian, as an Ora-Timeus, the Sicilian, Cotemporary of Agathocles, made his Works admir'd for the Abundance of the Matter, the Variety of Thoughts, and the Purity of Expression (d). After Timeus, History declin'd among the Greeks. You may fee elsewhere, what one ought to think of these Historians (e). Let us pass on to the Romans; and let us endeavour to mark, what was the Birth of Hiltory

(e) Princ. de l'Hist. Part 3.

⁽d) Cic. Orat. 1. 2. n. 53. 56, 57, &c. Vosius, Hist. Græc. lib. 1. c. 12. lib. 4. cap. 1, 2, 3, 4.

History among them, the Date of its Perfection, and of the Beginning of its Decline.

Among the Romans, History was nothing Romans. else at first, but simple Annals. The High Priest, in order to preserve the Memory of Facts, reduced into Tables the most remarkable Things that pass'd every Year, and expos'd them in his House, that the People might have the Opportunity of confulting This Usage, as ancient as Rome itfelf, lasted even to the Pontificate of Publius Mucius; and these Tables were call'd the Great Annals (f), a Name which they had in all Ages. Notwithstanding these wise Precautions, History receiv'd a great Shock at the time of the Burning of Rome by the Gauls, An. 366. from its Foundation. The Annals of the Pontiffs perish'd at this sad Conjuncture; and this Loss has made some learned Men suspect every thing that is found in the Roman History prior to this Date. Titus Livius informs us of this Event; and his Testimony is of great weight: But as Vossius has remark'd (g), while Livy fays, that the most Part of the publick Monuments perish'd at that Occasion (b), he seems plainly to hint, that a Part escap'd the Flames. Moreover, amongst all Nations, every Town had its particular Annals; and the Towns of Italy, whose Affairs were mix'd with those of Rome, could furnish good Memoirs to the Historians: To which add, the Acts of the Senate and Magistrates, so often cited by Cicero, Suetonius, and Tacitus; join also the Tables

⁽f) De Orat. 1. 2. & 52.

⁽g) De Hist. Lat 1. 1. cap. 1.

⁶⁾ Decad 1, 1.6. init.

Tables of the Cenfors, which Dionysius Halicarnasseus adduces in so many Passages; as likewise the Laws of the Twelve Tables, the Inscriptions, &c. All which Documents seem sufficient to ascertain the Facts, and to answer the Doubts about them. I have, perhaps, said too much on a Subject, which Mr. Abbé Tellier has so learnedly clear'd up. If you read the Dissertation of a Learned Academician (i), you will be convinc'd, that it would be unjust to cut off the three or sour First Ages from the Roman History.

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This People, who had a Passion for Glory, took always great Care, that the Memory of illustrious Actions might not be lost. Scarce had the Gauls retir'd, when the military Tribunes fell to work, and made diligent search for the Treaties of Alliance, which remain'd yet intire, or of which Copies were scatter'd among the People; which were good Materials and Foundations for those who set about wri-

ting the History, to build upon.

Nævius and Ennius did it in Verse (k). Q. Fabius Pictor was the first who wrote in Prose: He chose to write the History of his own Time; that is to say, the History of the Second Punick War. This Historian, and his Successors, wrote in a very little Way: Such was Cato the Elder, as samous for his Origines, as for the Severity of his Censure: Such were L. Piso, C. Fannius, and some others. Antipater, who liv'd in the Times of the Gracchi and of the Fannius we have mention'd, added more Elevation and Strength to History

⁽i) Alem. de l'Academ. de Belles Lettres, T.6. Disc. 3. (k) Nævius dy'd An. Rom. 349. He was older then Ennius.

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History (1). The Latins afterwards being better acquainted with the Greeks, began to leave off the rude Way, and write more politely; and Quintus Catulus, that flowing O. rator, wrote the History of his Confulship in fo pleasant a Style, as shew'd he had profited by his Acquaintance with Xenophon (m). Sisenna, Cotemporary with Marius, surpass'd the preceding Historian, but came not up to the Perfection of History; which was not feen in all its Beauty, but under the Dictatorship of Julius Casar, and the Empire of Augustus. History grew weak under Tiberius, and expir'd under Trajan: Tacitus, tho' no ways comparable to Sallust, or to Titus Livius, may nevertheless be regarded as the last Historian the Romans had. If we go lower, the Authors of the History August -, Fornandes, Paulus Diaconus, &c. (more to be valu'd for what they narrate, than for their Manner of narrating) show us what History was in the 4th, 6th, and 7th Ages. easy to judge, that the Barbarity of the 10th Age infected History: Facts heap'd up without Choice, cloath'd with childish Circumstances; a gross Elocution; a cold and faint, infipid Narration; no care to discover the Motives that put Men upon Action, nor to remount to the Source of their Actions; no care to animate the Discourse, and make it This is the Notion we may form, and have of fo many Chronicles, which the learned Collections of the Hihuge and storians of Italy and Germany have given us.

The Re-establishment of Learning gave oc- The casion to pure and polite Writing. History Moderns, H 2 dress'd

⁽¹⁾ Cic. Orat. 1. 2. n. 54.

⁽m) Idem in Bruto.

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dress'd itself in the Style of Livy and Tacitus, yet without being able to appear with the Spirit of those great Men. Every one wrote in the manner most suitable to his own Taste The Grammarian fet himfelf and Talents. to polish his Style, and to adorn his Dicti-The Learned had too much Erudition and Criticism in his History; he despis'd the light Graces which embellish the Narration (n). The Politician penetrated with great Judgment into the most conceal'd Causes of Events; he enter'd into the Genius of the People, and of those who govern'd them: But must he in the Sequel speak of the Motions of Armies, give an Account of a Siege, or of a Battel? This able and judicious Historian can fustain the Character no longer; he shews plainly his Ignorance in the Point of War (0). On the contrary, the Man of the Sword wrote of, and spoke like a Connoisseur of Encampments, Evolutions, and the Operations of a Campaign; but his Talents were confin'd to the Military: His History leaves his Readers ignorant of the wife Regulations, which in time of Peace establish the publick Tranquillity; and of the good Laws, which make the Happiness of Civil Society. Tho' with regard to the Arts and Sciences, we are superiour to the Ancients; yet we are not their Equals in History. Let us hope, however, that the Care which is daily taken to cultivate all forts of Knowledge, which is capable to adorn our Minds, and extend our Ideas, will one Day

⁽n) Mess. Adr. de Valois & de Cordemoy dans leur Hist. de France.

⁽a) Grotius in his Annals of Flanders.

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give us a Thucydides and a Sallust; at least, the universal Approbation some Authors have met with, who have written History with great Art, and have known how to join that which is delightful, with what is both simple and noble, fortisses this Hope, and shows that it is not without Foundation.

The HISTORICAL ART.

THE Ancients, who were fo rich in Models for History, have left us but a fmall number of Tracts concerning the Manner of Writing it. Dionysius of Halicarnassus and Lucian are the only among the Greeks, who have faid any thing towards it. Cicero before them had touch'd the Subject with greater Justneis; but, 'tis possible, with too great Brevity; but that very little which he gives upon this Subject, in the fecond Book of his Orator, may, to him who has a good Tafte, be as good a Guide as the long Works of Patrici, Folieta, Mascardi, Vossius, and so many others who have multiply'd without number; they are to be found in the Penu artis bistorica. One had need to take care to distinguish and to pick out the good from the bad or indifferent in this tiresome Compilation. Mr. de Cordemoy (p) and Pere Rapin undertook this troublesome Task, and executed it with great Judgment (9).

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⁽p) De la maniere d'écrire l'histoire.

⁽⁹⁾ Instructions fur l'histoire.

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INSCRIPTIONS, DE-VICES, BLAZONING.

HERE is a new Kind of History, which is not kept in Closets, but is exposed to the View of the People, in the Streets and publick Places; which may be consulted at any time, and which, being engraved on Marble and on Brass, promises Immortality to Heroes.

Infcrip-

Inscriptions are very ancient; they were in common Use among the Greeks, and were confounded then with Epigrams. The Romans did not neglect these short fort of Histories; they flatter'd too much the Vanity of private People, most part of whom would have been forgotten, if their Tombs, which subsisted, had not told us their Names, Employments, and

personal Qualities.

The Defire of Glory is common to all Nations; these Nations, that rais'd themselves on the Ruins of the Roman Empire, retained fomething of the Roman Manners and Cuftoms; and having at last divested themselves of that Barbarity which favour'd still of their Origin, they continued to make Use of the Latin Language in the publick Monuments. These Inscriptions oft-times answer'd ill to the Dignity of the Matter; fometimes they were more fit to expose the Lowness, and the puff'dup Style of their Authors, than the Actions or Virtues of the Heroes, for whom they were made. Nothing could be done better than to trust the Care of them to a small number of Persons, vers'd in the Knowledge of Antiquity

quity and the Belles Lettres. 'Twas this gave occasion to the Establishment of the Academy of Belles Lettres. Mr. Colbert form'd the Plan of it; and from the Year 1663, we saw four learned Men, chosen from among those who compos'd the French Academy, who were appointed to labour on Inscriptions and Medals, and Devices, which might be presented to them to be made for the King. This new Colony of the French Academy increas'd with fuch Reputation, that it has, at prefent, not only carried the publick Monuments to the highest Point of Perfection; but has, by its learned Refearches, given Light to the darkest Ages, clear'd up ancient History, and made found Criticisms on the most obscure Facts.

But is not this learned Company mistaken in the Choice of the Latin Language for Inscriptions? Has it not paid too great a Deference to an abusive Custom? Among the Greeks and Romans, the Inscriptions were, 'tis faid, in the vulgar Language; shall the French Language, in this Respect, be in a worse Condition than the dead Languages? No; it is not from the blind Impulse of a received Usage, that so learned an Academy has given the Preference to the Latin before the French: It confider'd, without doubt, that the understanding of those fort of Pieces belong'd of Right to those who have had some Education; and that from them it ought to pass and be communicated to the Vulgar. It saw that the Latin, because of its Conciseness, and the Inversion of Words which is peculiar to it, is much more fit to make Images and Representations; in short it saw, that the Latin Expression is shorter, more fonorous, and more fine than the French Expression; and which may be H 4 added.

added, will probably last longer, and be understood when no Expression in any modern living Language can. It is not therefore without Reason, that the Latin seems to be consecrated to the Glory of great Princes; tho' the Mother Tongue is often successfully made use of in Honour of illustrious Persons, but of a private Condition.

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Devices.

As for Devices, they are of a modern Institution; they are not before the Time of Paulus Jovius, who was the first that gave the Rules of them in the 16th Century, a little while after the Expedition of Italy by Charles the VIIIth.

Ccats of Arms.

Coats of Arms, are in a Manner a short History of Families; they distinguish the different Degrees of Nobility, and their different Alliances; they make fometimes an Allusion to a famous Action. Some Authors have thrown out a great deal of Erudition to show, that they came to us from the Greeks and Romans; but the most judicious Writers (r) fix their Rise and Date from about the 11th Century. Before that Time, they fay, there were no Coats of Arms, neither upon Tombs, nor on Seals, nor on Money. Nor is there any Historian who speaks of them before that The History of Geofrey Count of An-Time. jou, and Son of Foulques, written by a Monk of Marmoutier, is the most ancient Monument which makes mention of Coats of Arms. The Voyages beyond Sea, under Henry and Philip the first, Kings of France, gave occasion to these Marks of Honour, and the Tournaments brought them in Vogue: But to whom do we owe the Origin of the Tournaments? 'Tis a Question

Tournaments.

> (r) Velfen, du Cheine, Fauchet, du Tillet, Blondel, St. Pourth, &c.

Question the Learned are not agreed about. Pancirolus gives it for Emanuel Comnenus Emperor of Constantinople (s). Pere Menestrier (t) gives the Invention of them to the Germans. Mr. L'Abbé de Choisi (u) gives the Honour of them to a French Gentleman call'd Geoffroy de Preuilli. Whatever be in it, 'tis to the French we owe the Blazon; they made an Art of it; and 'tis in our Language that Strangers blazon or colour their Coats of Arms. The Authors, who have written of Blazoning, are too many to be taken Notice of here. Pere Menestrier has assembled them all in his Bibliotheque; there you may see their Names, and their Works.

PHILOSOPHY.

PHILOSOPHY, fays Cicero (x), is the Study of Wisdom. In the Language of the Ancients, Wisdom is the Knowledge of Things Divine and Human; that is, the Knowledge of God and of the Universe, which is his Work and Creature; the Knowledge of Man and of his Duty. According to this Idea, which is very good and very simple, Philosophy is as ancient as the World. Man, when newly made, must both have known and lov'd his Maker; and the wonderful Sight of Nature.

⁽s) Liv. 2. de choses nouvellment inventées, ch. 29.

⁽t) Origine des Armoiries, ch. 3.

⁽u) Hist. de Philippe de Valois, liv. 2. ch. 7.

⁽x) Tufculan. I. init. Offic. 1. 2. c. 2.

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ture, in all its Beauty, must have ravish'd him into this Love, and led him into this Knowledge, the Moment he was created; and by confequence, into a Sense of that Homage and Duty he ow'd to his great and bountiful Creator. The first Man therefore was the first Philosopher.

Before the Amongst his Descendants, the true Philosophy, which is inseparable from the true Religion. Deluge.

was preferved in the Posterity of Seth; and af-After the the Deluge, the Children of Sem, and those of Deluge. Abraham, handed down this Philosophy from Age to Age. Among the Israelites, none but Mrachites. the Priests were the Trustees of this holy Phi-

losophy; their Lips preserved Knowledge, and Instruction was received from their Mouth

(y).

So it was also among the Egyptians; their Egyptians. Priests, and they only, taught the Rules of Wisdom, and the People were oblig'd to hear and learn them from them; and the Ignorance of these Precepts was not excused in any Profes-The Philosophy or Religion of the Egyptians was much inferior to that of the Hebrezos, which was folely founded on the eternal Law; but it was more pure than was afterwards the Philosophy of the Greeks. Multiplicity of Opinions and the Partiality of Sects distracted their Philosophy. The Notions of the Egyptians were more found, being more conform to the Simplicity of Nature; and as they were a People of a more penetrating Genius, their Views were more extensive. Their moral Laws, which were necessary for all Conditions of Men, were delivered in the plainest Manner: But the Sciences, which were merely curious, and had no immediate Influence on the Manners of Mankind, were veil'd and cover'd under

(y) Malachi ch. 11. v.

under Hieroglyphicks; they made a great Mystery of them to the People and to Stran-This Conduct, how unaccountable foever in Appearance, was of good Use in some Respects. It procur'd a great Veneration for the Priests and their Disciples. The Soldier. the Tradesman, and Husbandman, not idlely troubl'd about Philosophy, minded their own Business; the Sciences, when in the Hands of a small Number, were not liable to that Diverfity of Opinions; and were with greater Surety apply'd to the Advantage of the Pub-As the Egyptians did not eafily communicate their Knowledge to other Nations, their Doctrines are but little known. All they have fuffered to transpire has been carefully collected by that great Antiquary Mr. Selden (z), and by Father Kircher (a): But I don't know if these learned Men could warrant all their Conjectures.

The Phanicians cultivated Philosophy with Phanicir great Care. Thales, who was of Phanicia, ans and while he resided at Miletus (b), taught the Greeks. Greeks the first Elements of Philosophy; and which, 'tis faid, he brought to Perfection by the Discoveries he made in Egypt. He confin'd himself to Physick, Geometry, and Astronomy. He flourish'd in the Times of Cyrus and Cambyles Kings of Persia, and was the Father of the Ionick Sect, which fill'd Greece with a Multitude of great Men. Anaximander, the Disciple of Thales, added new Observations to those which his Master had already made; but those who came from his School, far from following his System, were divided in their Opinions

(z) De Dîs Syris.

⁽a) In Oedipo Egyptiaco.
(b) A Town of Ionia.

nions about the first Principle of natural Things.

Anaxagoras acknowledg'd an eternal Being for the first Agent; Heraclitus made Fire, Democritus Atoms, and Anaximenes made Air the first Mover.

When the Ionick Sect began to appear in Greece, Pythagoras of Samos, who had studied under Pherecydes the Syrian, established the Italick Sect in the Country about Naples: He made a Voyage into Egypt; and 'twas there he laid the Foundations of his Doctrine, and learn'd the obscure and mysterious Way of The Severity of his Injunctions Teaching. and Rules, supported by his own Example, and the exact Abstinence which he made his Difciples observe, help'd to reform the Manners and to fortify the Bodies of the Crotoniates. The greatest Wits of Greece and Italy, mov'd by his great Fame, came and submitted themfelves to his Discipline. His most famous Disciples were Ocellus the Lucanian, Timeus the Locrian, Archytas of Tarentum, Philolaus of Croton, Melissus of Samos, Parmenides and Zeno of Elæa.

In Greece, Socrates the Athenian, a Man of vast Genius, of profound and universal Knowledge, consin'd himself to the teaching of Morality, and making Man true Philosophers; for which he had an admirable Talent, and he put it to its proper Use. Criton, Aristippus, Cebes, Simias, and Euclides of Megara, are number'd among his Disciples; but Plato and Xenophon were the two most illustrious, and the only, who have preserv'd in their Writings the Doctrine of their Master. But Jealousy divided them; the one, in his Republick, gave the Preserence to a popular Government; the other, in his Cyropædia, shews that Monarchy

is the most perfect Government. This Difference of Opinion, as 'tis said, occasion'd that Indifferency between them, with which they have been so often reproach'd; and which certainly was not to the Honour of either one or the other.

Plato was the beloved Disciple of Socrates, and fucceeded to him. He imitated his Master perfectly in his Way of teaching Philosophy. He had a good Stock of Knowledge of his own, and he improved it a great deal by the feveral Voyages which he made. When he was in Egypt, he had Occafion to converse with the Jews, and to read the Books of Moles, which a Man of his Genius could not miss of profiting by; and it is very probable, that he drew from these Fountains of true Philosophy, both the Sublimity of his Ideas, and the Nobleness of his Expressions. Plato laid the Foundation of his Philosophy in Sicily, and had some illustrious Disciples in Syracuse; as Dion, the Brother-in-law of the first Dionysius Tyrant of Syracuse, and Dionysius the younger, who succeeded his Father, &c. His Lessons made a furprizing Change at that Court; for, from being funk in Effeminacy and Indolence, it became the School of Virtue, and the Sanctuary of the high Sciences. So rapid a Progress lasted but a short while; Flattery stopt its Course; but Philosophy found a more folid Establishment in the Academy at Athens.

Speusippus, Plato's Nephew, and Xenocrates who had been his Hearer, differ'd in some Opinions, and founded two different Sects. Polemon, Crates, and Crantor, succeeded to Xenocrates, and changed nothing in the Doctrine of Plato. Arcesilas differ'd widely from him.

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Lacydes and Carneades, who came after, softened what they thought too hard in the Reformation of Arcefilas, and founded the new Academy. Socrates was not positive; but so moderate in his Opinions and Discourses, that he left to his Hearers the Liberty of canvassing the Matter, of disputing for and against. This Liberty degenerated into Licentiousness, and gave Occasion to all the Changes that happened in his School. And the new Academicians at length rejected all Certitude, and admitted of nothing but the Probable; and counting it their Glory to avoid the Arrogance of being decifive, they contested and disputed about every

thing (z).

This Incertitude of the Academicians went yet a greater length in the other Sects; they pretended to found it on the Principles of Socrates, but did not understand him aright (a). Ariston, Pyrrhon, and Herillus, maintained every thing to be doubtful; fo that having no stable Opinion, nothing to hold by, they stray'd, and labour'd for ever under continual Difficulties From these three Chiefs and Hefitation. fprung the Scepticks, who pretended to doubt of and dispute the most evident and incontestable Principles. Their whole System is reducible to this, viz. That it is not possible to discern Good from Evil, nor that which is True from that which is False. A fertil Principle, which in after Ages brought forth Libertines and Atheists. On the other side Aristippus, mistaking the true Meaning of Socrates concerning Pleasure, had a wrong Idea of it, and made it confift in the Gratification of the Senses. Epicurus, tho' more refin'd than Aristippus, did neither exclude the Word Pleasure, nor explain

⁽x) Cicer. Offic. 1. 2. c. 2.

plain it distinctly; which Conduct of his has made it doubtful what were his true Sentiments. Some have undertaken to justify Epicurus, with respect to the fundamental Principle of his Morality: But no body has so much as thought of defending the Epicureans his Followers, who may be supposed to have

embrac'd the Opinion of their Master.

Antistbenes studied to imitate the Patience and Firmness of Socrates. From Antisthenes came the Cynicks, and afterwards the Stoicks (d). The Principle of 'em all was, That we ought to follow Nature; and they differ'd in nothing among themselves, but in their Explication of that Maxim. The Cynicks were perfuaded, that to follow Nature meant nothing else, than that a Man should gratify his natural Motions and Appetites, which are common to us with the Brutes. The Stoicks, by the Word Nature, understood right Reason, which shews a Man what he ought to do, and what he ought to fuffer; which banishes Passion and Humour; which teaches, that a Man ought to have no other Motive in his Actions, but the Love of Truth and Justice. The Stoicks tarnished these fine Sentiments. by maintaining that a Man had the Power of fulfilling all these Duties within himself, and of making himself happy by so doing. They were the most presumptuous of all the Philofophers; but they gave great Examples of the moral Virtues, which are always useful to Civil Society: They acknowledged for their Chief, Zeno of Cyprus, who had been the Difciple of Polemon the Platonist; and who gave his Lessons in the Gallery of Athens, in the Time of Antigonus and Ptolemy.

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A long Time before this, and under the Reign of Alexander, Aristotle, who had studied under Plato, being displeased with the Manner Xenocrates taught Philosophy, left the Academy, and went to the Lycaum, where he established his School. He taught his Scholars walking along with them; therefore they were called Peripateticks. Theophrastus succeeded to Aristotle after his Death, and Straton succeeded to Theophrastus, and Lycon succeeded to him; and after Lycon, Demetrius Phaler aus and Heraclides were Masters of the School. They taught the Doctrines of Ariftotle by Tradition; for Aristotle had prohibited the Publishing of his Writings. Theophrastus, to whom he had given them in Trust, left them to Neleus when he was a dying. Neleus conceal'd them so carefully, that they were not known for a long Time, not till about 160 Years after, when they were fold to Appellicon; and after that, Sylla carry'd them from Athens to Rome.

Philosophy, which was so amiable in its Origin, degenerated very soon among the Greeks from the Nobleness of its Birth. It took all the Forms of the different Passions of Men, whom it ought to have reformed. became re proachful under Lycon, impudent under Diogenes, voluptuous under Metrodorus, impious under Diagoras. The Philosophers made use of their Profession to procure the Favour of Princes; they made it mercenary, for sordid Gain and Interest. It became, at length, nothing but a vain Amusement, and a Pretext for Idleness, and a mere Jargon of endless Disputes. They neglected, in short, the useful Part, push'd on their Speculations

beyond all Bounds, till they evaporated into

trifling Subtilties.

But as Philosophy had become contemptible in Greece, it continued to be respected in Italy, where it had taken deep Root, fince the Establishment of the Italick Sect founded by Pythagoras. That Philosopher was Cotemporary with Servius Tullus the 6th King of Rome; and 'tis probable enough that his Difciples gave the Romans a Taste and Love for their severe and frugal Way of Living. For is it to be imagin'd, that the Romans, originally a rude Multitude, and of corrupt Manners, should have so soon distinguish'd themselves by fuch shining Virtues as appear'd in the Camilli, the Curii, and the Fabricii, without Instruction, or having had the Example fet them? Is it not more natural to think, that being instructed by their Neighbours, and excited by the Example of the People of Croton, who under the Conduct of Milon had routed the formidable Army of the Sybarites, they adopted their Discipline, and put it in Practice in their Conquests?

This practical Philosophy, which tended At Rome. I only to the Exercise of the Virtues, was preferved at Rome, by a continued Tradition, to the last Age of the Republick; and then it was, that the Romans, by their Acquaintance with the Greeks, learn'd the Principles and Rules of Morality, of which they had so many Examples at Home. About this Time, Philosophy began to recover and rise again in Greece, from a Reason contrary to that which had made it fall. The first Ptolemies had formerly brought over the principal Philosophers to Alexandria; and in the Time we speak

(e) Fleury, Choix des Etudes, Art. 3.

speak of, one of their Successors drove them out of it. These Exiles taught and form'd Atticus, Cato Uticensis, and Brutus, who by their great Politeness knew how to correct and smooth the rough Virtues of their Fathers. Moreover, among so many Sects of Philosophers, the Romans rather lov'd to follow those of them they found most agreeable to their Taste, than to be Authors, and introduce new ones. Thus, Cato preferred the Sentiments of the Stoicks, as most conform to the Austerity of his Manners. The calm and fweet Temper of Cicero made him incline to the Academicks. The Love of Pleasure made Casar embrace the Tenets of Epicurus. Under the Emperors, the Circumstances of the Times made Philofophy take very different Forms. The Romans having become the Sport of the fantaftick Humour and Cruelty of Tiberius and Caius, fought and found in the Doctrines of Zeno a Firmness necessary to support them under their Misfortunes; and they accordingly put their Philosophy in Practice. But the Attacks of Domitian were so violent, that they yielded, and were no more the firm Philosophers; they were Philosophers only in Shew, not in Manners (f). Adrian and the Antonines, who were Lovers of Philosophy, encouraged and honoured it: But Rome had now no Philosophers of its own; they were all Greeks who profess'd it there, as EpiEtetus, Plutarch, Taurus, Apollonius, Numenes, and a great many others. At last, found Philosophy being infected with the Vices of those who profess'd it, fell altogether under the Empire of Julian the Apostate; and Magick came in its Room.

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⁽f) Aul. Gell. noctes Attice, 1. 9. c. 2.

The Christians, who had studied the Pagan The pri-Philosophy before their Conversion, reclaim'd mitive as properly their own, whatfoever they found Christians. that was good in it: And made use of the Maxims of the ancient Philosophers, to refute the Gentiles and Hereticks.

The Fathers of the first two or three Centuries made use of the Doctrine of Plato. They believ'd it more proper than any other to prepare the Minds of Men for true Wisdom. In the following Ages, the Ecclesiastick Writers began to have a Relish for Aristotle and his Doctrine, which was suspected before. It prevailed in the East from the Time that Anatolius Bishop of Laodicea taught it, under the Empire of Dioclesian; and it made great Moors and Progress afterwards amongst the Moors and Arabians.

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Almanzor, who began to reign in the Year Anno 7. of the Hegira 137, and the Califfe Abdalla, C. 735. encouraged and studied with Care the Philofophy of Aristotle. It was taught over Africk. Spain, and in all Countries of the Musfulman Dominions, only as it was interpreted and commented by Alfarabius, Algazar, Albumazar, and fome others, whose insipid Commentaries destroy'd the Text of that Philolopher.

In France, Aristotle had not always the In France. fame Fortune; his Writings were not well receiv'd at first: They were condemn'd in a Council, Anno 1209; and afterwards by an Affembly of Bishops, which was held at Paris under Philip the August; by the Cardinal of St. Stephen, Legate of Innocent III. Notwithstanding all these Proscriptions, Alexander Alesus and St. Thomas Aquinas set about the Explication of the Peripatetick Doctrines, and laid

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laid the Foundations of the Scholaftick Philofophy. The Authority of these great Men was of great Weight, and contributed a great deal to the Introduction of the Principles and Method of Aristotle. In the mean Time they were much mistaken; for the School-Men neither knew this Philosopher, nor made him known, but in a Moorish Dress. The Arabick Terms turn'd into bad Latin made this prevailing Philosophy appear perfectly ridiculous; but Prejudice or Custom threw a Veil over it, and hinder'd the Deformity from being perceiv'd. Its difficult and harsh Principles, to speak as Montagne does (g), and its vain and empty Words, which expressed nothing certain and fenfible, but were Signs of some confused, general, and perplexed Notions, made the fond Amusement of the Learned for a long Time. Such was the State of Philosophy; when about the Middle of the XVIth Century, Des Cartes having carefully examin'd the Philosophy then in Vogue, was himself convinced, and had the Success to perfuade others, that, in Philosophical Matters, Authority ought to be filent before Reafon. Ramus, Tilesio, and Patricius had before him endeavoured to cure Men of their Prejudices, but to no purpose. Cartes was more fuccessful, and open'd a new and unknown Way. His System was well conducted; it was the Work of a fertile Genius and profound Meditation; he had Followers in the new Road he had cut out; but was both oppos'd and admired in his Turn. He became useful both to his Adversaries and Followers: For by those new Views which he gave, with Regard to philosophical Enquires, he

he help'd a great deal to bring Philosophy to that Degree of Perfection we see it in at this Day.

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LOGICK.

HE first Part of Philosophy, in Order, is Logick; or the Art of conducting Reason in its Enquires after Truth. It is believed, that the Disciples of Pythagoras form'd the Scheme and Principles of it. Ocellus was the first who used the Method of Elements. Archytas reduced the Objects of our Thoughts into different Classes. Zeno the Elean distinguished the Operations of the Mind (b).

Nevertheless, Cicero makes Socrates the Author of Logick, which, he fays, he fetch'd from Heaven for the Benefit of human Society (i). In Effect, this Philosopher made a System of all the Precepts of this Science, and demonstrated the Use and true Practice of them in his familiar Conversation, which is properly what is call'd Dialectick. Socrates wrote nothing; but Plato has preferv'd the Doctrine of his Master in his Theotetes, in the Sopbift, and in the Politick, where he teaches how to divide and to define; and in his Cratilus, where he examines the Nature of fimple Words; in his Menon, where he establishes the Manner of fearching out the Truth, by making the Man with whom you engage upon any Discussion, produce and declare all that

(b) Rapin. Comp. of Plato and Aristotle.

(i) Acad. Quest. lib. 1. n. 4.

it

that he knows and can find in the Subject. This Socrates call'd, the laying of the Spirits, or bringing them to Bed. This Dialectick of Socrates is also found, as it were, by little Shreds in feveral other Treatifes, of which Number are, the first Alcibiades, Philebus, Euthydemus, Protagoras, and the two Hippius's (k). As for the Method, Plato prefer'd that of the Orators, as the most useful; which under a careless Appearance, conceals a great deal of Art; and which, by the Means of a certain Pleasure and an agreeable Air over all the Discourse, seems the most proper for removing Prejudices and allaying the Passions.

Aristotle chose rather to use the Method of the Geometricians, which admits of no Term that is not defin'd, nor of any Axiom that is not granted and submitted to; and he reafoned from these in the conclusive Form. this it appears, that Aristotle would have to do with none but those who were without Prejudice, who were attentive, and entirely reasonable: He invented the Syllogism, or at least he gave the Demonstration of all its Figures, in his Books of Analyticks: In a Word, he stopt at pure Speculations, which, for the most part, are but weak Helps for perfecting our Cleanthes and Chrysippus after-Reason. wards stuff'd Logick full of Quiddities and triffing Subtilties (1). Their Successors gave to many things, and to the different Ways of conceiving them, strange Names, which they were not at Pains to explain (m): It was this fort of Logick, which in after times was adopted by Occam and his Disciples: It was not bet-

(1) Cic. 1. 3. de finibus.

⁽k) Fleury disc. fur Platon.

⁽m) Plaut. Afinar. rudent. &c.

bettered by passing through the Hands of the Arabians; and to the great Shame of Reason, it triumphed a long Time in the Schools. Edmond Richer about the End of the 16th Century, did all he could to bring Logick out of that low Condition, into which the Schoolmen and Nominalists had reduc'd it: He endeavoured to bring it back again to the first Principles of Nature: His Book call'd Obstetrix Animorum, which is not so much read as it deserves, was as the Fore-runner of that admirable Method of Descartes, which Pere Malebranche, and all those who have come after, have endeavour'd to illustrate.

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MORALITY.

OGICK is the Foundation of a Part of Philosophy, which is of much greater Importance, I mean Morality, which may be defin'd, The Art of living well, according to the Light of Reason. The ancient Egyptians took as great care to put in Practice the Precepts of Morality, as to teach them. History represents them to us, as the most sociable of all Men. It was in their School that Pythagoras and the Divine Plato were instructed in that Wisdom or Moral Philosophy, which is admir'd in the Poem of the first, and which shines out in all the Writings of the second. It is indeed in Morality that Plato has excell-It is also the only Science, which Secrates culcultivated with the greatest Care. It is display'd in the Banquet of Xenophon, in the Philebus, in Plato's Commonwealth, in the twelve Books of the Laws, in Gorgias.

" Nothing, fays a learned Platonist (r), is more pure, as to what regards Difinterested-

" ness, the Contempt of Riches, the Love of other Men, and of the common Good; no-

"thing more noble, with regard to the Firmness of Courage, the Contempt of Pleasure or

" Pain, the Opinion of Men, the Love of

" true Pleasure, and sovereign Goodness and

" Beauty.

The Moral of Aristotle is founded on good Principles, but is too much set upon Man, and confin'd to the Duties of Civil Life. It neglects absolutely those of the Creature towards its Creator. The same Desect is observable in the Morality of Cicero, which he treats of particularly in his Books of Offices. In that excellent Work, he follows the Maxims of the Stoicks, the most enlighten'd of all the Pagans with Regard to the Duties of Men. If that Treatise of Cicero's can't make a Christian, it is, at least, very proper for forming a reasonable Man; and by so doing, may dispose him to receive with Docility the greater Light and Truths of the Christian Religion.

⁽r) M de Fleury, difc. fur Platon.

METAPHYSICK.

DEING, in general, and spiritual Sub-I stances, are the Object of Metaphysick. The Traditions of the Children of Noah concerning a Supreme Being, the Angels, and the Immortality of the Soul, were carry'd by their Posterity into all Countries where they establish'd themselves: But being very soon corrupted by carnal and vicious Men, they were fo chang'd from what they were when Noah deliver'd 'em, that they were hardly to be known; and, except among the Jews, there were no clear Vestiges to be found of so pure a Doctrine. The Egyptians maintain'd the Immortality of the Soul. Pythagoras own'd that Truth; but he was ignorant of the Fall of Mankind by the first Man; judging however, that as Man was expos'd to all forts of Miferies, the Moment he came into the World, he must have brought some Guilt along with him: Therefore he imagin'd the Metempsychosis, that is, the Passage of the Soul from one Body into another. This was not the only strange Notion of that Philosopher: As he could not conceive the Estate of a Spirit separated from Matter, he suppos'd, that our Souls were fo many Portions of that univerfal Intelligence, which he call'd God; and that after having been purify'd in the Body, from the Stain they had contracted, they were re-united in the Æther to that universal Soul. According to this Principle, the Soul was no otherwise consider'd to be eternal, but as it was Matter, no part of which perishes, tho' it

be subject to various Modifications.

Plato adopted these raving Dotages; the Mysteries of Numbers explain'd by Pythagoras, the Order of Intelligences, Reminiscences, and the Ideas separated from God, which some think are to be met with in the Parmenides of Plato. Of all the Works of Aristotle, the most impersect seems to be that of his Metaphysicks. This is the Opinion of his most zealous Defenders; they have been taught and admir'd in the Schools for many Ages.

Descarte was the first who dar'd to leave the beaten Road: Thought gave him the Proof of his own Existence. I think, says he; therefore I am, or exist. From this so simple a Principle, but very fertile, he drew other Principles; and from them, a great Number of Propositions, which, from their natural Connection, found an easy Access to the Mind. Pere Malebranche, tho' a Cartesian, seem'd to be an Original, by that Art and Address he show'd in his Books of Metaphysicks. Every body knows the Epistolary Fight he had with Mr. Arnaud, about true and false Ideas, and which lasted as long as the Life of those two Champions.

Metaphysick opens a large Field, in which many have exercis'd themselves, and have wrote huge Volumes of Metaphysicks; but none of them without Faults. Bacon is not thought to be exact: His Genius is good, but don't shine out. Hobbes is obscure; he wants Solidity, and has nothing that pleases: His Opinions are singular, often floating and uncertain. In general, if we believe Mr. Leibnitz, the Metaphysick of the English is very much consin'd. This Learned German, who judg'd

fo well of others, feems to have wander'd, and gone aftray himself, in his Harmony Pre-establish'd. Such will always be the Lot of those, who, not satisfy'd with known Truth, seek to raise a Name to themselves, by the Novelty of their Systems.

PHYSICK.

THILOSOPHY, after Examination of Intellectual Substances, descends to take notice of the different Effects of Nature, and endeavours to explain their Caufes. This is properly the Province of Physick. As the Knowledge of Phyfical Causes depends on the Knowledge of the Principles or Elements, of which all fenfible Things are compos'd; 'tis the Knowledge of those Principles, which has always been the Object of the Inquiries of Phi- Ancients. losophers. Thales taught, that Water was the only Principle of all Bodies. Anaximander, his Disciple, distinguish'd Four Elements, and fuppos'd them to be the integral Parts of mix'd Bodies. Anaximenes attributed the Production and Formation of Bodies to the Condensation, and to the Rarefaction of the Air. Anaxagoras, without stopping at secondary Principles, ascended to a superior Intelligence, which conducted every thing with Wisdom: He labour'd to extirpate those weak, timid Superstitions, which are the Offspring of Ignorance; and to inspire Men, says Plutarch (o), with folid Piety towards the Gods. Heracli-

tus attributed the Origin of all things to Fire; that is, to a temperate Heat, or a Heat mix'd with Humidity. This was also the Opinion of Zeno and Parmenides, and which Lucretius (p) endeavours to render ridiculous, for want of truly understanding it. Democritus and Leucippus, not fatisfy'd with the Doctrine of other Philosophers, maintain, that Atoms, or simple and indivisible Bodies, are the Principles of divisible and compounded Bodies. Empedocles believ'd a certain Sympathy between the Four And according to this Philofo-Elements. pher, As the perfect Agreement of these Elements form'd the Universe, and support it; so it must of necessity perish, if ever the Elements disagree, contract an Antipathy, and fall into War against one another.

Socrates neglected Physick as useless. what purpose is it, said he, to amuse our-' felves with thefe Speculations, to confider the Reasons of the Movements of Bodies, and of their Mechanism? Is it not much better, to stop at the Designs of that Sovereign Spirit which governs Nature, and not trouble ourselves with Inquiries which can never fatisfy?' Plato, whose vast Genius made him grasp at the Knowledge of every thing the Sciences extended to, fought in the Philosophy of Pythageras, that which the Philosophy of Socrates could not teach him. But being accustom'd to reason upon Moral Subjects in a manner fuitable to them, he would needs reafon the same Way on Physical Matters, and explain them by mutual Respects, or Relations to one another: Which appears evidently in his Timeus; where he endeavours to explain the Structure of the human Body and the Senfa-

tions.

⁽p) Lib 1. v. 69. &c.

tions. The Defign is certainly good; but unluckily, the Execution of it is not correspondent.

Aristotle, who was form'd in Plato's School, follow'd the same Way, and even went a greater Length than his Master with his Moral and Metaphysical Reasonings, which he apply'd to Physical Subjects. The Disciples of those two Philosophers recommended and propagated their Doctrines of Natural Philosophy, but with a very different Fate. The Physicks of Plato were known and taught no longer than his School and Sect lasted. The Physick of Aristotle, being rais'd on the Ruines of Plato's, has continu'd to be taught in all the Schools, even to our own Days, and has been profess'd by the Learned.

Galilæus, in Italy made a new Light, arise on Natural Philosophy. Some pretended, he was affisted by the Principles of Leucippus. It's possible, he knew nothing either of Leucippus, or his Doctrines. But the Admirers of the Ancients pretend always to find them again in any of the Performances of the famous Moderns. According to them, they always borrow from some one or other of the Ancients.

Torricelli and Viviani, the worthy Succeffors of Galilæus, reduced Physick to the unchangeable Laws of Motion, which were little or not at all known before. The English Bacon excited his Countrymen, by his Example, to the Study of Nature. Boyle observing, that his Predecessors had err'd as to Facts, apply'd himself to discover the different Properties of Bodies, by repeated Experiments. Vanhelmont, the Fleming, carry'd his Knowledge of Natural Things so far, that he became suspected of Magick.

In France, Mr. Gassendi, a Man of great Learning, a declar'd Enemy of every thing which had the Air of Novelty, and very much prejudic'd in favour of the Ancients, took from Democritus and Epicurus what appear'd to him most reasonable, and built his System of Physicks upon it. So that he says little as of himself; and does little else but lend his Style to these Models. His Erudition oft-times hurts his Reasonings; it weakens them, and obscures their Connection. Gassendi, 'twould feem, had affembl'd the whole Forces of the Ancients to Support their Physicks, which were like to be borne down; but in spite of an aged Reputation, and of all Efforts to fuftain it, the Old Phyfick was forc'd to yield the Place to the New. The Mechanicks were now well cultivated and understood, and the New Physick made Nature to work after the same manner in its Productions, as Art wrought in any of its Works. Thus the Mind came to be fatisfy'd from ocular Demonstration. Whereas formerly there was nothing to be had from Philosophers, but Words, the Signs of vague and uncertain Ideas. Des Cartes, who was born to make a Revolution in Physicks, undeceiv'd Men of their old Mistakes, and corrected their false Opinions, and made them facrifice their old and predominant Prejudices to the Refearch of Truth. Des Cartes could not find fault with all the receiv'd Maxims, without raising up to himfelf great Enemies. Monfieur Huet, among others, declar'd against his System, and cenfur'd it sharply. Mr. Du Hamel was not very favourable to him, in his Physical Astronomy. Pere Marsenne, daring not to take part for or against him, fluctuated between Gassendi. Des Cartes.

Cartes, Pemmat, and Roterval. About that fame time, Des Cartes's Philosophy was stoutly defended by Monsieur Robault. He had publick Conferences at Paris: And as he had the Talent of adapting the most abstract Matters to the Capacity of his Hearers, he carry'd a Number of Suffrages, and he also made excellent Scholars; one of the most famous of them was Monsieur Regis, who spread his Doctrine over the Provinces, where it was receiv'd, as it had been before in the

Capital.

It is well and prettily faid of Monsieur Des Cartes's Philosophy, that it is only the Anti-Chamber to the Truth. But if this Philosopher did not know all the Wonders of Nature, he has, at least, put those who came after him, in the Way to know them. His System, tho' superior to all others which had appear'd, was not fimple enough. His globulous and his channel'd Matter, of which he got some Help, threw him after into great Difficulties. Of the three Cartefian Principles, Pere Malebranche retain'd only the Subtil Matter. This Principle alone, as 'twas manag'd by that Great Man, became the Source of all the Movements of Bodies, of all the Changes of Nature, and as it were the Spring of all the Machines of the World.

Des Cartes compos'd his Universe of an infinite Number of Vortices, or Whirlpools, of which the Fix'd Stars were the Centres. These Whirlpools being immense Collections of extremely agitated Matter, move all at once, and together; and every one of them in a Way which agrees with the Whole. They compress one another reciprocally by

their

their centrifugal Forces; but they compress with fo perfect Equality, that they preferve the Counterpoise they were put in. Subtil, or Æthereal Matter (which is only the finest Fluid) diffus'd over every Whirlpool, is divided by Malebranche into numberless Whirlpools, almost infinitely small, and whose centrifugal Force is almost infinite. the gross Particles touch one another immediately, and are at rest, they are compressed on all fides by the little Whirlpools which encompass them; which gives that Hardness and Refistance which their Parts make against their being difunited. If it happens, that these little Whirlpools that are contain'd in the Interstices of the hard Bodies, have no more the Liberty of moving as before, they endeavour by their centrifugal Force to reestablish these Bodies in their former State; and from thence comes the Spring, or Elasticity. Every Luminous Body presses the Sphere of the little Whirlpools that encompass it; that Pression is the Light, and communicates itself in an instant from the Centre of the Sphere to its last Surface; because all is full. But as the Luminous Body is push'd back, every Moment it does push, it makes Vibrations by Preflion, whose Number being more or fewer in a determin'd Time, produce the different Colours. The fame Principle ferves to explain Reflexion, Refraction, and Weight or Gravity. In a word, he gives Reasons for the most abstruse Things in Phyficks. 'Tis true, this System of Pere Malebranche is not so much a new System, as a Copy of that of Des Cartes; because it turns all upon the Notion which was very familiar

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miliar to this first Inventor, but which he had not push'd so far as he ought to have done. And, if you will, this shall be the Cartesian System reform'd, and put in its true

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We have faid, that Gravity, a Phænomenon even till now incomprehenfible, was explain'd by the System of the Whirlpools; yet that Explication has its Difficulties. Mr. Huygens and Saurin have learnedly folv'd them (r). But Mr. Newton has chosen rather to elude them, by establishing a System quite different. This Learned Englishman therefore, admits in general a Central Force, which he calls Attraction, and which makes the Parts of Matter to gravitate towards one another. A Law of the Motion of the Planets about their Centre, made Mr. Newton imagine a Central Force. 'Draw (fays Kepler) from the Place ' a Planet has departed, and from that where ' it actually is, two straight Lines, which ' terminate in the Sun, the Area fram'd by ' these two Lines, and by the Portion of the ' Ellipsis which the Planet has run over, ' grows in proportion to the Time which ' passes during the Motion of the Planet : It ' now remains, to know exactly the Law of ' that Central Force.' A fecond Rule, establish'd by Kepler, leads Mr. Newton to the exact Knowledge of that Force. This Rule lies, in confidering the Time of the Revolution of a Planet about its Centre, as proportional to the Square Root of the Cube of its bam,

⁽r) Journal des Sçavans, Febr. 1705. Mem. de l'Acadides Sciences, 1709.

middle Distance to the Centre (s). Mr. Derham, in his Physico-Theology, follows the Newtonian System. This Opinion has its Partisans among us. But several Learned Men adhere to their dear Whirlpools; and it's the Party which the greatest Number of our Na-

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tural Philosophers espouse.

If we compare these new Systems with the Agents which Aristotle put in motion, but without explaining their different Operations, we shall easily perceive the Superiority of our Physicks to those of the Ancients. if we confider the long Series of Experiments, which can fo hardly be adjusted to those new Systems, we shall be oblig'd to acknowledge that our Philosophers have not taken the right Road. They have dreffed up general Systems, and they have apply'd Experiments to them, according to their Appearance, or as they have cast up. Thence it happens, that the Truths which refult from these Experiments, and which would be certain, if they were separately demonstrated, lose their Evidence, being mix'd, and as it were drown'd in the System. Which is the Reason why we cannot enough admire the Wisdom of the Academy of Sciences: That illustrious Company was made known, by the Learned Affemblies which were kept at M. de Montmor's House It was afterwards establish'd for the Advancement of Arts, Anno 1666. And from that time it has answer'd, by its Labours, to the good Intention of the Founder. Since the time it was fix'd by the invariable Rules, according to the Views of M. de Pontchartrain and

⁽s) M. de Maufertuis Discour. sur les disserentes Figures des Aftres.

and Mr. L'Abbé Bignon, it has enrich'd Natural Philosophy with an infinite Number of Discoveries: It makes every Day a great Collection of Observations: It provides Materials for founding a general System, and which will be raised all at once, when the Facts and Experiments, it takes care to collect, shall afford Light and Truth enough to make it perfect, and not to be shaken. The Academy of Paris communicates this wise Conduct to the Academies of the Provinces. This same good Conduct appears also in the Foreign Academies.

These celebrated Societies prefer the Experimental to the Systematick Philosophy: And they give grounds to hope, that we may see that Science brought to perfection; which, tho' cultivated for so many Ages, ought yet to be consider'd as in its Cradle.

NATURAL HISTORY.

W E are not to expect any other Advances in Physick, but those that shall be made in Natural History. It comprehends all that real Knowlege which is founded on Experiment; all which has a relation to Cosmography; that is to say, the Construction of the Universe and its Parts; the Anatomy of Plants and Animals; and the Arts which produce considerable Changes in Natural

tural Beings. Pliny has written a complete Body of Natural History, and the only one which the Ancients have left us. The Author of this great Work was of Verona, according to Vossius (t). He dedicates his History to Titus, who was Consul for the 6th time; which fixes the Date of its Publication to the Year of Rome 830, the 77th of our common Æra.

This History, which has no other Bounds but Nature itself, is too vast to be exact. A Writer cannot fee all things with his own Eyes; and he may eafily be deceiv'd by those who furnish him Memoirs. We may allow to the Partisans of Pliny, that he was uncapable of imposing upon the World in Matters that he could verify himself. But let those Gentlemen grant on the other hand, that what he has advanc'd on the Faith of others, is ofttimes false, and always suspected. Besides, Pliny confiders only the Outfide of Nature; he stops there. It's true, the outward Cloathing of Nature is fine; but is not fufficiently known of any, who oever they be, who are ignorant of the internal Arrangement and hidden Springs of all the Parts: Nevertheless, this History is a very precious Monument of Antiquity. We understand by it, the most flourishing Condition of real Physick among the Romans, and what it amounted to. We may also learn from this History, that several things in Natural History are known at this Day to be false and fictitious, which have passed for true and certain for many Ages: And, on the contrary, that some things which the Ancients look'd upon as false, meet with no Contradiction at present.

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Amongst the Moderns, they who have labour'd in Natural History, have treated of the different Parts which compose it. true, they have restricted themselves to the Natural History of their own, or of some other particular Country. There's a great Number of them: Let it suffice to cite some of 'em. Childrey has written the Natural Hiflory of England; Sibbald that of Scotland; Boet that of Ireland; Schwenckfield that of Silefia; Pere Raskinski that of Poland; Wolfar that of Hesse; Wagner that of Swisserland. We have that of the Antille-Islands, by Pere Pertre; that of Jamaica by Sloane; that of the English America by Josselin; that of Mexico by Hernandes. For the Hihory of the New World has not been neglected; and it is not the least curious. But as this History in general is of vast Extent, it is best to take it in Detail, after we have stopt a little at the Article of Medicine.

MEDICINE.

Preservation of Health, and its Reestablishment when it is lost. The first consists in the Regulation of Life, with regard to Diet, Exercise, &c. as Medicine prescribes. The second consists in the Knowledge of Diseases, which is called Pathology; and of their Remedies and Application, which regards Pharmacy, under the Direction of Medicine.

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The Learned agree, that the Egyptians invented Medicine; and indeed, in Egypt every thing feem'd to point out that Study. The Serenity and Purity of the Air and Heavens, and the Heat of the Sun, made Nature in Egypt strong and fruitful. Æsculapius, one of the Sons of Menes, composed Six Books on Medicine (y). He reign'd ar Memphis, while his Brother Mercurius reign'd at Thebes (z). this Art had its Birth in this small Kingdom. The Egyptians were so thankful for this Benefit, that they look'd upon these Six Books of Asculapius as Divine Books; and he committed them to the Custody of the Priests: Which proves, that the Priests only practifed Medicine. But they order'd the Practice of it in fuch a manner, as every Disease had its particular and proper Physician (a). By so wife a Regulation, they avoided Jealoufy, and render'd themselves more sufficient in their Profession and Business.

That the Priests also among the Israelites practised Medicine, there needs no other Proof, than that it was assigned them as their proper Function, to separate the Lepers, to judge of the other Legal Impurities, and to regulate the Manner of Purisications. All this makes a considerable Part of Medicine. There is mention made of Medicine in the last Chapter of Genesis (b), when Joseph caused the Body of his Father Jacob to be embalm'd: But it is plain, he made use of the Egyptians on this Occasion. Other Texts of Scripture are more decisive, with respect to the Israelites (c). Asa, King

(y) Clem. Alex. Strom. 6.

(z) Marsham Chron. Can. Ægyptiac.

(a) Herodot. Hift. 1. 2.

(b) Art. 2.

(c) Pfal. 87. v. 11. Ifai. ch. 3. v. 7.

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King of Judab, when feiz'd with the Gout, is blam'd (d) for having put all his Confidence in the Art of the Physicians. fage of Exodus (e) marks also, that among that People Medicine and Surgery were not diffinct Professions. Under the Asmoneans, and in the time of Jesus Christ, the Jews apply'd themselves to Medicine. The Ecclesiastes would have them honour'd who apply to it. He puts a Value on the Knowledge of Simples, and the Composition of Remedies (f). Gospel (g) it is said, that the Woman with the Bloody Flux had fuffered much by the Phyficians, and spent all she had on Medi-Thence we may infer, that Physicians meddled also in Pharmacy. It is only in the later Ages that the different Parts have been professed and practised separately.

The Greeks, in the Times of the Heroes, made Medicine to consist only in dressing and curing of Wounds with topical Remedies (b). Their frugal and moderate Way of living, kept them free from Fevers and other Diseases; so that there was no Occasion for prescribing Diet and Regimen. This Golden Age lasted but a short while: Luxury brought on Intemperance, and Intemperance made a great Change in the Constitution: So that it became necessary to have recourse to other Remedies; and Necessity invented the Way of applying and administring them; and long Experience at length made the Art. They

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(e) Ch. 21. v. 19.

(b) Plato de Repub. lib. 3.

⁽d) Paralipom. 1. 2. c. 16. v. 12.

⁽f) Cap. 28. p. 1. & feq.

⁽g) Marc. c. 5. v. 28. Luk. ch. 8. v. 43.

had no good Physician before Hippocrates; he was of the Isle of Coos, and liv'd in the 84th Olympiad, born in the happy Time of Greece, with a fuperior Genius for Medicine: He was wonderfully skill'd in the Prognosticks of Diseafes, and could with great Affurance declare their Course and Termination. He soon found out the Constitution of the Patient; and from the Constitution and Nature of the Air, and Situation of Places, could both judge exactly of the reigning Distempers, and foretel those that were to follow, with their concomitant Symptoms. All the Physicians in the World at this Day admire and give into the Hippocratick Practice; but there are few who have equall'd their great Master. I leave to the Learned, especially in Medicine, to determine whether it be true, what fome have affirmed of the Writings of Hippocrates, viz. That they were only a shapeless Heap of Memoirs, which he put together without Order, as Cases happened, and Matter was offer'd him, but with a Defign to revise and digest them (i).

Medicine was not honoured at Rome, till the Times of the Emperors. Julius Cæsar gave the Freedom of the City to all who professed it (k.) Augustus exempted the Physicians from Payments of Taxes. The Ability, or, it may be, the Success of Antonius Musa, in curing this Prince of a threatening Disease, brought the Art into great Reputation, and procured them this Privilege (l). About the same time Celsus composed eight Books on this Science. The Style of this Author is much commended, as having the Purity of the Language of the

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⁽i) Sorbon. I et. H.

⁽¹⁾ Sueton. in Jul. Caf. (1) Dion. Hift. lib. 53.

Augustan Age. His Precepts are not followed. Andromachus of Crete dedicated to Nero a great Poem on the Theriack, which is an Antidote, the Invention of which is attributed to himself. Marcellus of Side in Pamphylia wrote forty two Books in Verse on the Subjects of Medicine, in the time of Marcus Aurelius. At that time there was a fort of Alliance between Medicine and Poefy, and the Phyficians cultivated

the Belles Lettres carefully.

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Galen of Pergamus, Cotemporary with Marcellus, had a great Name, both on the account of his Works, and the Practice of Physick. His Method is esteem'd, tho' in the Opinion of fome not without Faults. Befides, he only enlarges on Hippocrates, whom he explains and puts in a good Light. Those we spoke of last wrote in Greek; but Serenus Sammonicus, who fuffer'd by the Cruelty of Caracalla, has left us fome Latin Verses on Medicine. Zeno of Cyprus profess'd Medicine at Alexandria, whose School was much frequented. He flourished in the time of Julian, and had Oribafius for his Disciple. Oribasius was born at Pergamus, according to fome, and others make him born at Sardis. At first he made a succinct Compend of all the Works of Galen. He afterwards compiled in feventy Books every thing that was found to be good among the best Physicians (m). Photius puts a great Value on this fecond Work. We have only at present the first five Books, with the 24th and 25th turn'd into Latin (n). As also a Summary of the whole Work in nine Books, and another Epitome of Medicine in four Books, dedicated to Eunapius. One Flavius, who, as St. Jerome fays,

⁽m) Biblioth. Cod. 217.

⁽n) Printed at Paris, 1555.

fays, wrote some Latin Verses on Medicine, is faid to have liv'd in the Reign of Honorius (0). This Author is very little known. Paulus Æ-gineta, his Cotemporary, was more famous. He made an Abridgment of the Works of Galen and Artebasus, and in After-ages had both his Translators and Scholiasts.

Thus the Greeks practifed Physick over all the Roman Empire, and transmitted it to the Arabians about the Beginning of the ninth Century. Medicine, far from being improved, grew worse under these new Doctors. They made it depend on general Reasonings, drawn from the Qualities and Temperament of the four Humours, and on the traditionary Knowledge of their Remedies, which they received without Examination. They also mix'd with it a Number of Superstitions; for the Sciences ordinarily take a Tincture of the Manners of the People who cultivate them. The most celebrated Arabian Physicians were Rhazis, Averrboes, and Avicenna. The first dedicated his Works to Almanzor; Averrhoes was famous at Cordova, Anno J. Ch. 1140. Avicenna lived at that fame time. Thevet makes him King of Bithynia (p). I dont know how he founds his Account; but Crowns are not the diftinguishing Marks of the Learned.

Chinese, Persians.

About the End of the following Age, the Chinese, who were at the Court of Casan, gave the Persians some Lessons of Medicine, as it was practis'd among their Countrymen (q). The Chinese were great Physicians at that time, and their Method and Principles are to be seen in the Chinese Flora of Pere Boym a Polish Jesuit.

(a) Voffius de Poet. Latinis.

(p) Vie des Hommes illustres, 1. 7. c. 34.

(q) Boyer's Mufæum Sinicum.

fuit, printed at Vienna in Austria, 1656, and which is also to be found in the Collection of

Thevenet's Voyages.

In the mean time, the Study of Medicine The was renewed in the West. They borrowed French. from the Arabians, notwithstanding the Faults we have taken notice of. This Science was managed at first only by Clerks and Monks, because none but they had any Learning; so that Fulbert Bishop of Chartres, Peter Lombard Bishop of Paris, Obizo a Religious of St. Victor, and Rigard Abbé of St. Denys, were reckoned among the learned Physicians. The Distinction between the Physicians, Surgeons, and Apothecaries, may be referred to this Time; for it was not allow'd that the Clerks should let Blood, nor keep Shop. This Distinction gave occasion to the Physicians of applying themselves to Speculation only, and of neglecting Observation and Experiments. Universities were form'd, and the Faculty of Medicine was one of the principal. The School of Padua became famous in Italy. J. B. of the Mount acquired so great a Reputation in that Academy, that it was faid the Soul of Galen had pass'd into his Body (r). Bassiano Lando succeeded him in the Professor's Chair. They both flourished about the middle of the 16th The Ita-Century: but, about the beginning of the 17th, lians. Hieronymus Mercurialis join'd Medicine with the Belles Lettres, in that excellent Treatife of the Gymnastick Art.

The Germans also had very able Physicians; Jossius Villicus is very remarkable for his Magirick. Joannes Cornarus, perceiving that the Humour was turn'd to the Study of the Ara-

⁽r) Tessier Additions aux Eloges de Mons. de Thou, tom. 1.

bian Physicians, was the first who reviv'd the Knowledge of the Greek Physicians, who for

feveral Ages had been forgotten.

In France, the good Days of Medicine began with Fernelius, that illustrious Disciple of the School of Paris. None amongst the Moderns wrote better of the Nature and Causes of Diseases. Jacobus Hollerius, Jean de Gorris, Antoine Mizaud, Laurentius Joubertus, fo well known for his Book of popular Errors, and Auger Ferrier, distinguish'd themselves in that Profession. Those who came after them, began to shake off the Yoke of the Ancients. Instead of having Recourse to Authority, and of holding for certain all that Galen and Hippocrates faid, they were refolv'd to be affured of Facts, and to confult Experience. Those vast Countries, which were not known to the Europeans but about two hundred Years ago, furnish'd Medicines which the Ancients had never heard of, and which help'd in a great meafure to bring Medicine to Perfection. over, it was well known, that this Art could not always stand, and be treated by general Rules; but that it necessarily varied, according to the Differences in the State and Constitution of the Air, in the Quality of the Ground, in the Quality of the Territory, and in the Quality of the Inhabitants of different Countries. 'Tis this which has given occasion to the Inquiries and useful Researches in the Medicines of particular Countries. Thomas Bartholini has given us that of the Danes; Peter Hochzeter has given us that of the English; John Christopher Derebeck, that of the Swifs; and Mr. Endtell, that of the Poles.

ANATOMY.

NATOMY offers to our View the A Structure of the human Body, discovers and lays before us all its Parts, and informs us of their feveral Uses. This Science has a common Origin with Medicine, from which it is inseparable; so that those who acknowledge Æsculapius King of Memphis for the first Phyfician, must also own him as the first Anatomift. And indeed, according to Pliny's Account, the ancient Kings of Egypt did not think it below them to diffect Bodies. In process of time, the Priests made a particular Profession of the Arts, and did not neglect Anatomy. The constant Practice of embalming Bodies, not only of Men, but of the Brute-Animals also, which were almost all of 'em facred among them, made them very skillful, and well acquainted with the interior Structure of animated Bodies. This Help to Anatomical Knowledge was wanting to the Greeks and Romans, who burnt their Bodies, and fatisfied themselves with the preserving of the Ashes of their Dead; nor do we find that they were good Anatomists in the time of Galen, that is, in the Reign of Marcus Aurelius. Those of 'em, who had a Defire to acquire a more perfect Knowledge of this Art, went to the Schools of Alexandria, that they might be instructed by Lessons on the Mummies and Embalming. But Anatomy was as yet in its Infancy, when the other Arts began to be restored; and it is only about 200 Years fince it may be faid to be well known; for, during all this Interval, they applied to the Study of it to good purpose over all Europe; and, by necessary Consequence, Surgery has been rendered much more certain in its Operations. Anatomy could not be brought to that Persection we now see it in, without making new Discoveries, and that by degrees. But they are too many to be narrated here; such a Detail and Exactness would make me transgress the Bounds I have prescrib'd to my

felf. Let one Example fuffice.

Every body knows, that the Blood which runs in the Vena Cava is discharg'd into the Right Ventricle of the Heart; that it passes from that into the Arteria Pulmonalis, which carries it into the Vena Pulmonalis, which difcharges it into the Left Ventricle of the Heart. whence it is push'd into all the Extremities of the Body by the Trunk and Ramifications of the Aorta, or great Artery. Nevertheless this admirable Mechanism, which is now so well known and visible, was absolutely unknown to the most learned of the Ancients. I know. that some pretend that Aristotle knew the Circulation of the Blood: but I know also, that before the 16th Century the Practice of all Physicians contradicted this Pretension, tho' they had submitted their Science and Practice to the Aristotelian System. Those who affirm, that Hippocrates had any Notion of the Circulation, are forc'd to confess that he rather guess'd at than comprehended it, and that he was far from being able to explain it diffinctly.

Servetus understood this Truth, and explain'd it pretty clearly in his Preface to the second Edition of the Book for which he was condemned (t). Sixty Years after Servetus,

Har-

⁽s) Le Pere Rapin, Comparison de Platon & Aristotle.
(t) Calvin caus'd Servetus to be burnt at Geneva, Anno.
1553.

Harvey, an English Physician, set the Circulation of the Blood in its full Light, and explain'd its principal Circumstances, and was fo fuccessful as to persuade the most learned Men of his Time. But as it is a hard Matter to shake off Prejudices, some Physicians could not think of embracing an Opinion which overturn'd all their former Ideas; they wrote against the new System. The famous Papinus fignalized himself in this Dispute. He made great Efforts to oppose his Treatise of the Diastole of the Heart, to the Opinion which began to prevail: The School of Paris was also led by Papinus, and emitted and fustained Theses against the new Doctrine. Prejudice blinded the most learned among them. Gassendi gave into it at first; the Darkness was at length disfipated, and all Doubts were refolved, when the Communication of the Chyle with the Blood was discovered; and which was about this Time demonstrated: For Gaspar Asellius a Cremoneze, the famous Anatomist of Pavia; discovered the Veins which served to that Communication; they are a fourth Sort of meseraick Veins; and from that Time they were called the lacteal Veins (u).

The Throacick Duct, which Pecket first found out, was a new Proof of the Truth of the System of the Circulation. The Miscroscope came in to the Assistance of this Truth, and render'd it sensible. By the Help of this admirable Instrument, the Integrant Parts of the Blood are seen, as so many Globules of a dark red, carry'd in a clear, transparent Liquor, running with Rapidity through the Arteries towards the Surface of the Body of a Fish, and returning more slowly towards the

Cen-

⁽¹¹⁾ Vie de Sam. Sorbiere, par Graverol.

Centre by the Veins; and the Bigness of these Globules was determin'd to be about twenty-five thousand Times less than a Grain of Sand. It was also discovered that they were compos'd of fix others, which turn'd about their Center (x).

This Truth, fet in its full and true Light, made the whole Mechanism of the human Body plain and obvious; as also its Nutrition, and the Source of its Maladies. It made the Combat of the Qualities, and the different Temperament of the Humours, which had been always taken for the Causes of all the Alterations of our Machine, be totally rejected.

The Principle of the Circulation opened a Way for many Experiments: As for Example, the Transfusion of the Blood of an Animal into the Body of a Man, of which so much has been written; and the Insertion or Inoculation of the Small Pox, a Method, which having pass'd from China to Constantinople, is now successfully practis'd in England (y).

Since that Time Anatomy has been taken in Detail, and studied with great Care as to its different Parts. Mess. Willis and Vieussens have brought the Neurology to Perfection (2). Mess. Petit and Winslow have made very useful Observations on the Eyes. The Discoveries of Mr. Senac on the Structure and Uses of the Diaphragma (a), which had been treatof by so many Anatomists, show, that all has not as yet been discovered, even in the Parts which are most known. The Brain is a remarkable

⁽x) Observ. de Leuenhock.

⁽y) Journ. des Sçavans, Avril 1732.

⁽z) Description des Nerfs.

⁽a) Hift. de l'Acad. des Sciences.

markable Instance of it. Sylvius and the famous Steno speak but doubtfully of that Organ, which is so essential to Life, and subject to so many Diseases. It is more easy to refute the Opinion of the Ancients on the Subject of the Ventricles of the Brain, and to dispute the Opinion of Des Cartes about the Glandula Pinealis, than irrefragably to fix the true Seat of the Functions of the Soul.

Tho' it imports us most to know the human Body, yet we ought not to look upon the Anatomy of the Animals as a Matter of Indifference. A Part whose Structure is obscure in one Species, is oft-times fenfible and clear in another Species. And if I may be fo bold as to make use of the Expression of a Wit of this Age (b), one would be apt to fay, That Nature, by its varying and multiplying its Works, can't binder itself, sometimes, from betraying its own Secrets. Aristotle and Elian at very different Times have written the History of Animals (c): But being more Historians than Anatomists, they have not penetrated into the internal Configuration of the Brutes: They have also oft enough given into the Fable: All the World knows what the Ancients tell of the Phanix, of the Remora, of the Sea-Duck, of Colts and Partridges begotten by the Wind, of the Salamander, which according to them liv'd in the Fire, and threw out a dangerous Poifon.

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⁽b) Mr. Fontenelle Hist de l'Academ des Sciences.

⁽c) Aristotle was born in the 99th Olympiad; Elian under Alexander Severus.

The Moderns, who for a long time had been feduc'd by the Ancients, have been by infensible Degrees cur'd of their Prejudices. Aldrovandus has successfully written the History of Quadrupedes; Rondeletius and Salviani that of Fishes; Belm, that of Birds; Redi, that of Insects. But the Academy of Sciences has made an astonishing Progress in that Kind of Study: Ann 1676, it drew up Memoirs from very exact Dissections, that they might ferve for the History of Animals. In short, nothing has escap'd the learned Inquiries of these learned Academicians, and of some Fo-

reigners.

Mr. de Reaumur has given a particular and clear Account of the Moths (d) and Wasps (e); Mr. Malpighi, that of Silk-worms; Mr. Homberg, that of the Spiders (f); Mr. Poupart has written of the Ant-Lyon (g), and of the Ant-Midge; the same Mr. Reaumur has written of the Snail, &c. (b). Bonnani, of Ovsters, &c. Maraldi, of Bees; Geofroi the younger, of Flies. To judge of the Exacti ess of these able Artists, you need but confider the Description they give of the Eyes of that Infect: They represent them as two immoveable Circles round the Head of the Animal, and compos'd of a prodigious Number of little Chrystallines, rang'd in two cross Lines in form of a Lattice; and, by the Help of a Microscope, they make you observe b low, as many optick Nerves as there are little Chrystallines without; and they make

(0) 1729.

⁽¹⁾ Hist. de l'Acad. des Sciences, 1710 and 1728.

⁽ f) Hist. de l'Acad. des Scien. 1707.

⁽g) Anno 1704.

the Number of them to amount to several thousands on each Side. If they continue this Scrutiny with the same Care, what rich Discoveries may not we expect in Natural History!

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BOTANY.

T Consider the Ifraelites as the first Botanists of the World. Rachel certainly believed that the Mandrake was good against Barrenness, when she so passionately ask'd of her Sister those which Ruben had brought her (i). It fignifies nothing to examine, whether this Opinion was well or ill founded; it is enough that they knew, or believed they knew the Virtues of Plants at that Time. Moses, by the Order of God, threw a certain Wood into the Waters of Mara, to sweeten their Bitterness (k). It is needless to have Recourse to a Miracle in this Place; because this wife Man makes use of this Example to show, that we ought not to neglect the Remedies of Medicine (1); and adds, that God has made known to Men the Virtue of Plants(m). Solomon, fays the Scripture (n), wrote of all Trees, from the Cedar to the Hyssop. The Wisdom, that is, the Knowledge of that Prince, surpassed the Knowledge both of the People of the East, and of the Egyptians; Orientals. which proves that the Egyptians were skill'd in Egyptians. Botany.

⁽i) Genes. c. xxx. v. 14, 15.

⁽k) Exod. c. xv. v. 23, 25.

⁽¹⁾ Ecclef. c. xxxviii. 4, 5.

⁽m) Ibid. v 6.

⁽a) Kings, 1. III. c. iy.

Botany. Besides, fince they knew and practised Medicine, they must have known the

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Simples.

Greeks.

The Greeks cultivated this Piece of Knowledge. The Philosopher Theophrastus, Aristotle's Disciple, has left us nine Books of the History of Plants, and fix Books of their Causes. This History is one of the finest Pieces of natural Philosophy to be found among the Ancients. The most learned of the Moderns have admir'd it. Theodorus Gaza translated it into Latin, and Julius Scaliger commented it. We have also the great Work of Dioscorides on the Simples. He was an illustrious Physician, a great Favourite of Mark Antony and Cleopatra. But we have loft the fix Books of Rufus of Ephefus, who liv'd, according (0) to Voshus, in the Time of Trajan; and whose Writings are cited by Galen and fome others.

Germans

We owe the renewing of the Study of Botany to the Germans. Leonardus Fuschius render'd himself so famous for Botany, that the greatest Princes of Europe honoured him with their Favour and Esteem. The Emperor Charles the Vth nobilitated him; and Cosmus Duke of Tuscany offer'd him an Appointment of six hundred Crowns a Year, if he would settle in Florence. The Example of Fuschius excited the Italians and French to apply themselves to that Part of Medicine.

Italians & French.

Mathiolus of Sienna made Commentaries on Dioscorides, with great Politeness, Judgment, and Industry (p). Dodonæus of Malines put his History of the Plants in better Order than any who had written before him on that Sub-

(0) Teiffier Addit. aux Eloges de M. de Thou, 1566.

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ject. The frequent Voyages to America and other Countries, not well known before the End of the 15th Century, enriched Botany with new Plants, which were distributed into different Classes. Piso brought from Brasil an exact Knowledge of the Simples of that Country. J. Hernandez gave a short Account of the Plants of Mexico. The Indians of Peru taught the Europeans the Properties of the Jesuits Bark, or Quinquina, which grows in their Country; those of Cayenne taught us the Use Simarouba (q) against the Dysentery; the Inhabitants of the Moluccas have given us in their Mangoustan (r) an excellent Specifick for the same Disease.

Nature, always magnificent in its Gifts, has disseminated almost an infinite Number of Plants over the Face of the whole Earth. has been the Study of the Botanists to range them in Order; for which End they have contriv'd different Systems ; that of M. Tournefort's is fo fimple and fo convenient, that, it is probable, it will always be approv'd of by all Naturalists. It reduces the Plants into 14 Classes, fixed by as many Figures of the Flowers, which comprehend 673 Genders, determined by the Flowers and by the Fruits taken together; and which are fubdivided into 8846 Species of Plants, which characterise their Differences, either by the Root, or by the Stem, or by the Leaves (s). The new Plants which Mr. Tournefort brought from the East in 1702, to the Number of 1356, were rang'd of themselves, for the most Part, under L 3

(9) Hift. de l'Acad. 1729.

(s) Elemens de Botanique, 1694.

⁽¹⁾ Gesner. Biblioth. Teissier Addit. Ann. 1576.

⁽r) Hist. de l'Acad. des Sciences, 1730.

the different Genders which he had established; so that he was obliged to create only 25 for the others, without any Augmentation of the Classes.

The Defign of Botany is not fo much to fatisfy Curiofity, as to make Simples understood, in order to the Cure of Distempers. But Botanists would be hard put to it, and their Art become useless with regard to Practice, if they were obliged to know the prodigious Number of Plants there is in the World. It is worthy of the Goodness of God, to beflow on every Country Remedies for the Difeases that for ordinary reign in them; it is the Effect of the Ingratitude of Men, to despise the Riches and Gifts of Nature they have at Home, and to go feek for them abroad. So that we may truly fay, that the Perfection of Botany confifts in making Men enter into and follow that Order God has established on that Account; and in teaching them to be contented with the Plants that grow under their Eyes, and which they trample under Foot. The illustrious Naturalist, of whom I have faid fo much, has done this with Regard to the Botany of Paris (t); and the famous Mr. Heister has entered into his Views with regard to the Botany of Germany (u).

Let us not be afraid to reduce this Science to too narrow Bounds: One Plant alone is fufficient to display the Omnipotence of God, and to exercise the Learned for whole Ages. Conceive, if you can, that in a Grain or Seed of the first Tree of a certain Kind, all its Poste-

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⁽¹⁾ Tournefort, hist, des plantes aux environs de Paris, 1698.

^[10] Dissertation soutenus à He'mstad, 5 Decemb. 1730.

rity was inclosed: Follow the Motion of the Juices of the Earth, while it opens the Shoots and nourishes the Plants: Bestow your Attention on that wonderful Mechanism, which by the Help of Heat makes the Juices enter into the Vessels of the Root, makes them pass from Veficle to Veficle in the Body of the Stem; and after having rais'd them to the Top, by the Vessels, and by the Marrow in the Heart of the Wood, makes them descend partly by Circulation. Take the Fruit of a Tree; a Pear, for Example; distinguish, in the Skin which covers it, its four Coverings; determine, if it is possible, the particular Uses of every one of these Teguments; and you will be forced to acknowledge, that it is infinitely more useful to bound your Knowledge, and make it fure, than to multiply Inquiries by a reftless Curiofity.

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CHYMIE.

CHYMIE Works by Motion upon Metals, Vegetables and Animals; and this Motion, which it borrows from different Agents, has for its End, either to join feveral simple Things together, so that they may make one Compound; or to divide and separate a Compound into several simple Things.

Let us go back to the Egyptians, if we Its Origin would find the Origin of Chymie. Mercurius, among the King of Thebes, taught them to reduce Bodies Egyptians. by Decomposition to their three Principles, viz. Salt, Sulphur and Spirit; and the last of L 4 these

these Principles has retain'd in the Greek Authors the Name of Mercury. This Prince knew how to draw from Cinnabar that Liquid Metal which bears his Name, and which is found to be the same with Quick-silver; Mines of which began to be discovered about the Middle of the sixteenth Century (x); a Metal which is of very great Use in chymical

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Operations.

The Kings of Egypt, Successors of Mercurius, cultivated Chymie. One of them, if we may believe Theophrastus, invented artificial Azure. Seneca pretends that Democritus learned from the Egyptians the Art of foftening Ivory, and of giving the Pebble the Colour of an Emerald. In the last Times of that Monarchy, Cleopatra dissolv'd in an Instant, in prepar'd Vinegar, a Pearl, which she made Mark Antony swallow down. It is plain that fuch a Diffolvent belongs to Chymie. The fame must be said of the Art of making Glass malleable, which a Workman, as *Petronius* (y) reports, found out in the Time of Tiberius; and which perish'd with its Author, by the unaccountable Cruelty of that Prince (z). I know that some Moderns would deprive the Egyptians of the Honour of having invented so useful an Art; but I have good Vouchers for what I advance, and among others a learned Academician (a), who under an ingenious Fiction has conceal'd feveral literary Anecdotes.

Arabians.

The Arabians apply'd themselves to Chymie, which perhaps they had taken from the Greeks

(a) Abbé Terrasson, Sethos, Book 2, &c.

⁽x) In 1566 and 1567, according to Acosta's Hist. of the Indies, Book 4. ch. 11.

⁽y) Epist. 90.
(z) Pliny tells this Fact in a more improbable and obscure Manner, lib. 36. c. 26.

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Greeks with Medicine and Natural Philosophy; they push'd on this Art pretty far. It is true, they spoil'd it by their extravagant Reasonings, by the Superstition of the Operations, by the Vanity of their Promises, and by the pretended Transmutation of Metals.

About the End of the 13th Century, Ray-The Spamundus Lullius brought Chymie into Spain and niards, Italy, which he had learn'd from the Arabians. Italians, Cardanus came long after (b). Parcelsus (c) Germans, made known this Art to the Germans, and Fobori to the French. Chymie was then very imperfect; and, if I may fo fay, the True was drown'd in the False. Few natural Properties were known in mix'd Bodies, but they added a great many Imaginary. The Chemists admitted a certain Sympathy between Metals, the Planets, and the principal Parts of the human Body; and that they might not want a Dissolvent in Cases of Necessity, they form'd in their Imagination a pretended Alkahest. The Fermentation of two heterogenous Liquors made them suppose, that there were two Sorts of fimple Salts, the one acid, the other alcali, in all Bodies; and made them establish it for an universal Principle, that the Effervescence of those Salts was the occasional Cause of all the Changes in Nature: This Doctrine was wrapt up in a mysterious Obscurity, and hidden under a barbarous unintelligible Language, and probably void of common Senfe.

Such was Chymie, when Glazer, and after French, him Mess. Bourdelin and Lemery, Frenchmen, English. Homberg a German, and Boyle an Englishman, distipated the Darkness of that Art. They reduced it to more simple and true Ideas; they abolished

⁽b) He dy'd at Rome, An. 1576.

⁽c) He dy'd An. 1541, aged 47.

abolished all useless and impracticable Circumstances, with which the chymical Operations had been purposely charged. In short, they came at length to admit of nothing in Chymistry, but the simple and clear Notions of Figure and Motion. It is easy to see, that the famous Hypothesis of Acids and Alkalis must fuffer extremely by this Change. Mr. Poli made great Efforts to support its finking Reputation (d), but in vain; for the corpufcular Philosophy was too folidly founded, to be shaken by any thing he could advance in De-

fence of fo weak an Hypothesis.

As Chymie is a confiderable Branch in Medicine, and furnishes a great many good Remedies, much used in the Practice of Phyfick; it is also of great Use in natural and experimental Philosophy; and a great many curious, as well as useful Discoveries are owing to it: As for Example, the Vegetation of Metals (e); the Phosphorus of Balduinus and of Kunkel; and the famous Palingenefia or Refurrect on of Plants, which by warming the Ashes of a Plant, according to certain Rules, makes it, as they fay, rife in a Smoak, in the Figure and Colour of the Plant.

(d) In his Il trionfo degli Acidi, &c Rome 1706, (e) See the Journal des Sçavans, An. 1677.

MATHEMATICKS.

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THE Object of Mathematicks is Quantity, viz. That which makes Bodies susceptible of Number or of Measure; and consequently is divided into discrete Quantity and continued Quantity. The first is that Quantity, whose Parts are not ty'd or join'd together, as Number; continued Quantity, on the contrary, whose Parts are connected. And it is subdivided into Successive, as Time and Motion; and permanent, as Extension, which is also called Greatness. So that the End of Mathematicks is either to count or reckon, which belongs to Arithmetick; or to Measure, which is the Province of Geometry.

ARITHMETICK.

Parthagoras was taught the Sci-The Egypence of Numbers by the Epyptians, and tians and he carry'd it a good Length among the Greeks. The famous Table, which gives the Sum of two proposed Numbers, and divides one Number by another, is said to be the Invention of Pythagoras. He made use of Numbers and allegorical Applications of them, to make his Disciples enter into the Knowledge of spiritual Things, which is a Kind of Mystery, and will remain a Secret for ever: But, suppose it were known, and that some moral Use could be made of it, of what Use could it be in Arithmetick?

The celebrated Diophantus came after Pythagoras; he was born at Alexandria, and apply'd himself to the Solution of arithmetical Problems. but without giving the Demonstration. Arabians. Arabians brought this Science to Perfection. and made it much more easy by inventing the Cypher, which is so convenient for multiplying by ten. We are also obliged to them for Algebra, which the Ancients had neglected, for want of Figures or Marks which could express their numerical Calculations. I am of Opinion their Ignorance of Algebra is one Reafon why they made fo fmall Progress in the Mathematicks: For the Knowledge of a Mathematician, who is not an Algebraist, is very much bounded. Algebra is as useful for the inventing of all Sorts of Theorems, as for refolving of Problems. It affifts the Memory, by marking by the Letters of the Alphabet the Things that are necessary for discovering the Truth, and which otherwise would be very

French, English.

The French and other Nations apply'd themselves pretty early to the Study of Arithmetick, which is fo indispensably necessary. The English cultivated it from the Time of Bede, and about fixty Years after that, Charles the Great ordered the Bishops, in several Articles of the Capitularies, to teach the young Clerks Arithmetick. It was only about the End of the fixteenth Century, that Algebra was revived by Stifels and Vietus; they were in a Manner esteem'd as its Inventors; they treated it in a particular Method of their own. But nothing is more furprifing than the Progress the Science of Numbers made in the last Age. It is now carry'd as far as it can go. The

troublesome to retain.

The illustrious Mr. Pascal invented that admirable arithmetical Machine; by which, without Pen, without Counters, and without Principles, one can make all Sorts of Calculations. Mess. Mess. Mercator, Newton, and Leibnitz, have given us the infinite Series of Numbers (f), and Leibnitz has applied it to Combinations.

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GEOMETRY.

TECESSITY is commonly faid to be the Mother of Invention in general, and of the useful Arts in particular. Egypt has been always believ'd to be the first Mistress of the Arts and Sciences, and especially of Geometry: For the Egyptians, that they might diffinguish and recover their Possessions, which were every Year laid under Water by the overflowing of the Nile, were obliged to measure their Grounds, which also pre-supposes fome Knowledge of Arithmetick; and that they might reap the greater Advantage from that bountiful River, they cut the Country into a vast number of Canals, which put them upon the Art of Levelling, which naturally led them to the Knowledge of Proportion; and being a People of active Spirits, and full of Invention, they push'd on their Inquiries in Measure and Proportion, till they at length

⁽f) It is the Method of finding out the Value of the Sum of an Infinity of Numbers, according to fome Rule or Order.

Iength form'd that System, which is the Science of Proportion of all Kinds, represented by Lines; and which is call'd Geometry, from the original simple measuring of Land.

Mercury of Thebes, to prevent the Confequences of a fecond Deluge, ingrav'd upon Pillars the Principles of this Art, and fet'em in those subterraneous and winding Caves, which are as yet to be seen in the higher Egypt,

and which are call'd Syringes (g).

Thales, who was of Phanicia, brought the Knowledge of Geometry from Egypt into Greece. He was the first who demonstrated. that the Angle in the Circumference of a Circle. fubtended by the Diameter, is ever a Right Angle. This Truth gave him the Occasion of finding out the other Properties of a Circle, and conducted him to Trigonometry; that is to fay, to the measuring of inaccessible Distances, by the means of Triangles. Pythagoras, who, as Jamblichus (b) fays, had learn'd a great deal from the Pillars of Mercury, taught his Disciples Geometry. He made use of it to explain ienfible and material Things; as he made use of Numbers and Arithmetick to make them conceive things which don't fall It's faid, that he found under the Senses. out that famous Proposition of the Hypoteneuse (i) of the Triangle-Rectangle compar'd to the two other Sides; and that he offer'd up a Hecatombe, to (k) give Thanks to the Gods for the Demonstration.

Euclid,

(b) De Myst. Ægypt. 1. 1.

(4) Sethos, liv. 2.

⁽g) Ammian. Marcel. lib. 22. Marsham Chron. Can- Ægyptiac.

⁽i) It is the opposite Side of the Right Angle.

Euclid, who liv'd in the Time of the first Ptolemy, and whom we must not confound with another Philosopher of that Name, the Disciple of Socrates, made himself samous by his Elements of Geometry; which are a Chain of Theorems and Problems, in consequence one from another, and demonstrated by the first Principles. Archimedes was an hundred Years after Euclid. He wrote Treatises on the Sphere, on the Dimension of a Circle, and on the Quadrature of the Parabola. The Invention of the Spiral Line, or Helice, is ascrib'd to him, of which he also wrote.

Aristaus, who is call'd the Ancient, to distinguish him from a later Aristaus, wrote Five Books of folid Places; that is, of the Three Conick Sections, which are intirely loft. is not known exactly, in what time this Geometrician liv'd. Some make him Cotemporary with Euclid. Apollonius of Perga in Pamphylia, who came afterwards, collected all that Aristaus, Eudoxus of Cnidas, Menecmus, Conon, Thrasideus, and some others, had written before him. It was he who first gave to the Three Conick Sections the Names of Parabola, Hyperbole, and Ellipsis; Names which mark their distinct Characters. Of the Eight Books of this Collection, we have only the first Four in Greek: The three following were translated into Latin by Abraham Ecchellenfis, from an Arabian Manuscript of the tenth Age; the eighth is loft. I pass over the other Geometricians; Serenus, Author of the Cylindricks; Theodosus, Author of the Sphericks; Theon, Pappus of Alexandria, &c. They are well enough known to the Mathematicians; and it is of no great consequence to others to

know 'em.

The Learned of the 16th Century study'd only to understand the Ancient Geometricians, and to make others understand them by their Versions and Commentaries. Nicolas Tartalea and 7. Pelletier apply'd themselves to explain Euclid. Elias Vinetus translated Psellus and Proclus. Fridericus Commandin made

Notes on Apollonius Pergæus.

At that time it was thought impossible to furpass the Ancients, or even to equal them: As if the Moderns had neither good Eyes enough to fee, nor Spirits for Reasoning justly. This unjust Prejudice began to wear off about the Beginning of the 17th Age: Some Learned Men undertook to restore to the Ancients what the Injury of Time had robb'd them of. Franciscus Vietus and Marinus Getaldus of Rhagusa brought Apollonius to Life again, and endeavour'd to make out what he had, or should have faid, in that which was wanting of his Works. And a long time after them, M. Viviani follow'd their Example, with regard to

1659.

Apollonius and Aristæus. 1673.

> The Moderns, thus instructed by the Ancients, have carry'd their Inquiries and Knowledge in the Sciences much farther than they had done. The Conicks of Mr. de la Hire have eclipfed all that ever appear'd before on

that important Subject.

The Works of the River Eure, and the Canal of Languedoc, are two forts of Wonders in the Art of Levelling. Has ever practical Geometry done any thing fo fine, as to conduct the Waters of a River for more than twenty Leagues; and to raise them to the Height of an hundred and ten Feet? Or has it ever done any thing so useful, as the joining of two Seas

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by a Canal, where a certain Number of Sluices makes the Vessels rise or descend, in spite of the Fall of the Water?

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Tho' Geometry has for ordinary in View, the acting and working in material Subjects; yet it affords a great deal of pure Speculation, and makes us think justly; and is much more proper for conducting our Reason, than all the syllogistick Rules of Aristotle: It strengthens and enlarges the Mind: It even helps to form an Orator, if we may believe Quintilian (1). In short, Numbers and Lines are, perhaps, the only certain Knowledge allow'd us by the Light of Nature. These Motives have made our Geometricians, not only enrich their Art by their Discoveries, but likewise invent a new Method of conducting to the Truth, much more sure

and easy than that of the Ancients.

Pere Cavallieri, when he publish'd his Indivisibles, prepar'd the Way to the sublime Geometry of Infinites. Let us mark this Date: It will be famous for ever. It was in the Year 1684, that the Face of this Science chang'd all at once. Mr. Leibnitz in Germany invented his Differential Calcul; M. Newton in England, publish'd his Method of Fluxions: And these two Mathematicians gave under different Names a new Analysis preferable to the ordinary Analysis, and which certainly was the fame: For the Quantities which Mr. Leibnitz call'd Differences, Newton call'd Moments, or Fluxions. of this transcendent Geometry, which appear'd at that time in the Journals, moved several Learned Men to inquire into the \mathbf{M} Mystery,

⁽¹⁾ Instit. Orat. lib. 1. cap. 18

Mystery, and to dive into the immense Subject of Infinite. The Marquis de l'Hospital was the first in France who explain'd the Geometry of Infinites. This illustrious Man joyn'd a profound Knowledge to a happy Birth, and communicated without reserve, Treasures till then unknown, in his excellent Book of the Infiniment Petits, printed at Paris 1696.

This new Art, which had its Birth in the North, advanc'd there towards Perfection every Day. The Geometricians, by their Differential Calcul, had only hitherto made finite Quantities descend to their Infinitely little. The Difficulty was, to make the Infinitely Little remount to the Finite Great, or Quantities. This is what they call'd the integral Calcul. Mr. Bernoulli, Professor of the Mathematicks at Bale, gave the first Essay of it Anno 1691, in the Rectification and Quadrature of two different kinds of Spirals. Carré march'd in the Steps of this Learned German, and publish'd, Anno 1700, the first Complete Treatife that was written on this Subject.

As the Analysis of the Infinitely Little regards curve Lines; it is no wonder, that there are considerable Discoveries made in the Theory of 'em. It was by the same Key, that Monsieur Bernoulli found his Cicloidale, his Caustick, his Developée, and his Antidevelopée, and his Pericaustick, all of 'em spiral Logarithms, like to what they are generated from. By the same Method, M. Newton sound out sixty six new Curves of the third Order, or, whose Equations mount to the third Degree. Mr. Stirling augmented the Number of Curves to sour Kinds; and some Years since, Mr.

Picole

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Picole has illustrated what concerns them, in a very instructive Memoir, which is to be seen in the History of the Academy of Sciences.

Every Body knows, that the New Geometry of Infinites did not take at first with all Geometricians; Prejudice, and an Apprehension of its being very difficult, made many for some time forbear applying to it. But People have now laid aside these Prejudices, and are convinced, that it is more easy to learn this new Method, than to go far into the Mathematicks without its Help. Besides, the new Elements publish'd by a samous Academician, and approv'd by that Learned Body, have made the new Geometry much more easy (m).

We see therefore, what are the Parts which compose the simple Mathematicks, viz. Arithmetick and Geometry, which are mutually assistant to each other, and don't depend upon other Sciences.

We proceed now to the Mix'd Mathematicks, which treat of the Properties of Quantity, as it is found in fensible Subjects, and to which the Principles of Arithmetick and Geometry are apply'd.

(m) Elemens de la Geometrie de l'Infini, par M. de Fontenelle.

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COSMOGRAPHY, ASTRONOMY.

Observation of which fall under the Observation of our Senses, that which strikes us most, is the Universe, or Visible Nothing feems more worthy, nor more proper for exciting the Curiofity of Men, than that Disposition, Number, Greatnefs, the Distances and Movements of those Bodies which the Universe contains in its Immenfity. To come at this Knowledge, Astronomers have invented and supposed divers Systems, which might serve to fix their Ideas, and guide them in the Explication of the Phanomena, or Appearances in the Heavens. But before we come to the Detail of those Systems, let us consider the Origin of Astronomy.

The

The Egyptians are, with good Reason, said Egyptians. to have been the first Astronomers. They liv'd under a Sky always ferene: Their Climate, by a Proximity to the Equator, made them discover all the Stars, which made their Revolutions almost straight over them.

It may be supposed, that the Shepherds having these Advantages, and who passed whole Nights in the Fields, gave the first Hints, or rough Draught of this Science; and that the Learned afterwards carry'd it on (n). The first thing they thought of in

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these Matters, according to Herodotus (0), was, to regulate the Year according to the Course of the Sun. Besides, if it be true, as it is not to be doubted, that Thales and Pythagoras learn'd Natural Philosophy in Egypt; it is very probable, that these Philosophers took their famous Hypothesis of the Motion of the Earth from the Egyptians.

Tho' all the Priests of Egypt were vers'd in Astronomy, those of Thebes surpass'd the others in that Science: They were foolishly addicted to Judicial Aftrology; but even that filly Imagination led them to more fure and

certain Knowledge.

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Belus, who was born in Egypt, according to Diodorus, establish'd a Colony of the Egyptians in the Country about Babylon. communicated the Taste for Astronomy to the ancient Inhabitants of the Country; and the Temple of Belus, their Chief, who was deify'd after his Death, was the Place where they constantly observ'd the Course of the Stars.

The Mathematical Sciences have a close Connection with one another: An Astronomer must be also an Arithmetician and a Geometrician. But the Chaldeans were only as yet in the first Elements of Geometry and Chaldeans. Arithmetick: They had not the Knowledge and Use of Logarithms (p), which save us the Trouble of fo many numerical Multiplications and Divisions: So that they were oblig'd to make general Tables of Calculations, both with respect to Numbers, and to M_3 Tri-

(0) Histor. B. 2.

⁽p) Numbers of Arithmetical Progression, which serve as Expositors to the Numbers of a Geometrical Progression.

Triangles Rectilineal and Spherical. They continu'd those Tables for many Ages: For the Observations which the Babylonians gave to Callifthenes for Aristotle, went back 1903 Years, if we may believe Simplicius (q); which brings us back just to the Time, which some Chronologists assign to Belus (r). The ancient Observations were probably neglected afterwards, as less exact; and Aftronomers chose rather to hold by those that had been made fince the Time of Nabonassar: At least, it is certain, that the Greeks knew none prior to that Æra. And the 490 Years which Berofus and Critodemus in Pliny give to the Chaldeans, that is, to the Second Babylonians, come very near to the fame Epoch.

The Hebrews.

Abraham, who was of Chaldea, passed in his own Country for a great Astronomer (s); and he probably taught that Science to his Children. In the Time of David, there were, says the Scripture (t), in the Tribe of Islachar, Men of Experience, and wise, who were capable of discerning the Times, and of prescribing to the Israelites what they ought to do. The Interpreters understand by this, the Observation of the Stars, necessary for regulating the Feass, and all the Order of the Year. But as their Sacred Year was Lunar, the Inspection of the New Moon was sufficient for that: And perhaps they push'd their Astronomical Inquiries no farther.

The Greeks.

The Greeks, who liv'd for the most part by Trade, cultivated with Care this Science,

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⁽⁹⁾ He cites Porphyry.

⁽r) Boffuet Discour. fur l'Hist. Univers. Part 1.

⁽¹⁾ Joseph. Antiq. 1.8. Euseb. Præp. Evang. 1.9.

⁽¹⁾ Chronicles, Book 1. c. 13. v. 32.

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which is so necessary to Navigation. Chiron gave them the first Notion of it. This Father of the Grecian Astronomy, according to the Supputation of a skilful Chronologist (z), liv'd 1500 Years before Jesus Christ; that is to fay, in the first Times of Greece. Thales added a great many useful Discoveries in Astronomy, to those which he had borrowed of the Egyptians; and particularly, the Obfervation of the Equinoxes and Solftices (a), and that of the Course of Ursa Minor about the North Pole. Anaximander, his Disciple, knew the Greatness of the Sun and Moon; and he measured the Distance between these two Stars and the Earth; and he discovered to the Greeks (b) the Obliquity of the Zodiack (c). It is true, he differ'd, and separated from his Master, as to the Doctrine of the Diurnal Motion of the Earth. this, he paid too much Deference to his Senfes, and establish'd the Opinion of the Earth's Immobility, and of the daily Revolution of the Sun about it.

We have taken notice elsewhere, of the Care that Melon (d), and after him, Calyppus took to reform the Greek Calendar; and of what use were their famous Cycles of 19 and 76 Years. Eudoxus (e), Cotemporary of Melon and Hipparchus, who liv'd three hundred Years after Eudoxus, adopted the System of Anaxi M 4 mander

⁽x) M. Ferret, Observ. fur l'Index Chron. de Newton.

⁽a) Cic. de Natura Deorum.

⁽b) Angle of 23 Degrees and half, contain'd between the Ecliptick and the Equator, call'd, The Sun's greatest Declination.

⁽c) Plin. Nat. Hift. B. 2. c. 8.

⁽d) Princ. de l'Hist. Part 1.

⁽e) He dy'd 368 Years before Jesus Christ.

mander. These Astronomers placed the Earth in the Centre of the Universe, and wrapp'd it up in three different Regions of the Air; the Low, bounded by the Reslexion of the Rays of the Sun; the Middle, where the Clouds are; and the Higher, above which they placed the Region of Elementary Fire, a luminous Body, sovereignly hot. Then coming to the Disposition of the Orbs of the Planets, they put first that of the Moon; and above the Moon, they put the Orbs of Mercury, Venus, the Sun, Mars, Jupiter, and Saturn. They supposed, that all these Orbs were so many Spherical Bodies, perfectly diaphanous, and inclosed one within another.

The Use of these Heavens, according to these Philosophers, was, to explain the proper Motion of the Planets from West to East. Eudoxus and Hipparchus placed the Fix'd Stars, which were higher than all the Planets, in the Firmament, as in a Vault concentrick to the Earth. They made this Eighth Heaven the first Mover, which carry'd about with it all the inferior Heavens, to make them move in 24 Hours from East to West.

Ptolemy, who appeared under the Empire of Valerian and Marcus Aurelius, in the second Century of Christianity, follow'd the same Hypothesis: But finding that this Eighth Heaven seem'd also to move, tho' very slowly, he added a Ninth Orb, to serve as the first Mover; and by this means he endeavour'd to explain the daily Motion of the Stars.

This is not all. They wanted to find out the Cause of the slow Motion of the Fixed Stars, which only advance one Degree in 72 Years, according to the Order of the Signs; whence arises the Precession of the E-

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quinoxes. It is this which gave occasion to some modern Astronomers to imagine a Tenth Heaven, which they call'd The First Chrystalline. Afterwards, King A'phonsus and Regiomontanus observ'd in the Firmament a third Motion, which the Ancients had never thought of. By this Motion, which was call'd that of Trepidation, and for the sake of which, the supposed a Second Chrystalline Heaven, the Ecliptick seems to be mov'd, by advancing a little from one Pole to the other; and the Equinoxes seem also to be mov'd, by advancing a little from East to West, and reciprocally from West to East.

Such is the System of the World, followed by most of the Ancients, and re-establish'd among the Moderns, by Purback. I fay, by the most part: For Philolaus, Aristarchus, and other Altronomers follow'd a very opposite System. These two Systems accounted equally for the Periodical Return of the Stars. But if the one feem'd to be conform to the Appearances, the other, being infinitely more simple, feem'd to follow Nature more closely: Neverthelefs, Senfe carry'd it against Reason; and even to the fixteenth Century, the most imperfect System was the most prevailing. Then Copernicus, fortify'd by new Proofs drawn from Observations, renew'd the System of Philolaus, which is this:

The Sun is in the Centre of the World; Mercury, Venus, the Earth, Mars, Jupiter, and Saturn, turn not only about their own Axis, but also about the Sun, from West to East; and the different Revolutions of these Six Planets, are in proportion to their different Dislances from the Sun: But the Circles which they describe, far from being concen-

trick

trick to the Sun, cut the Ecliptick in different Points. This Astronomer excepts none of them, but the Earth, whose Centre never leaves the Ecliptick. The Moon is not in the General Rule; she moves, and describes her Circle about the Earth. In the last place, Copernicus places the Fix'd Stars above the Planets; he gives them no Motion at all; and he does not determine their Distance, because they have

no Parallax (f).

The Learned World was divided again between these two Systems, and every body followed his own Opinion; when (g) Tycho Brabe undertook to reconcile the Astronomical Facts (which no body doubted of by that time) with the common Opinion of the Immobility of the Earth. He supposed with Copernicus, that Saturn, Jupiter, Mars, Venus, and Mercury move about the Sun. But with Ptolemy, he made the Stars move about the Earth, which he made the Centre of the Universe. middle System had few Followers: New Obfervations discredited it, and made the System of Copernicus prevail. It was observ'd, that an East Wind blew continually between the two Tropicks, both in the one and the other Hemisphere. It was likewise discover'd, that Jupiter and Mars turn'd about their Axis in regular times; which are natural Proofs of the Opinion, which makes the Earth turn upon its Centre from West to East.

The first of these Proofs was owing to Navigation round the Globe. The second is owing to the Telescope, which was then invented

⁽f) The Distance between the true and apparent Place of a Star.

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vented. It made us observe the Milky Way, which Aristotle took for a Meteor, as a Heap of an infinite Number of little Stars; and fo made us conceive the Immensity of the heavenly Spaces. By the Telescope were discover'd the thirty little Planets, which make their Revolution about the Sun. Galilæus, by 1668. the help of the Telescope, was the first who observ'd the four Satellites of Jupiter. Cassini fince has calculated the Motions and the Eclipses they make Jupiter suffer, by getting between him and the Sun; and the Eclipses which they suffer themselves, by falling into Jupiter's Shadow. This important Discovery was follow'd by that of the five Satellites of Saturn. M. Huygens observ'd the 1655. fourth at first, and made the Ring which goes round the principal Planet be taken notice of; but the other Satellites were discover'd by M. 1671 Cassini. It was from the fix'd Spots, that this Astronomer had regulated the Course of 1684. Jupiter. He taught the Way of finding upon the Globe of the Sun, the true Position of the Spots which Galilaus had remark'd in These Spots made them perceive the Error of Copernicus, who believ'd the Sun to be immoveable, and make it evident that 1(61: he turns upon his Axis. M. Cashni made the Eclipses of the Sun serve for finding the Longitude; an ingenious Invention, which also astonish'd the Learned. He is the first who faw, or, at least, who taught others how to see, the Light of the Zodiack, which As in becomes hairy, when it is perceiv'd in presence 1706. of the Sun.

The Help of the Telescope, tho' great, could not have brought Astronomy to that Degree of Persection we see it in at present, without

without an Instrument more proportionate to the Greatness of the Heavens and the Stars, which this Science ought to measure, than a Quadrant. The famous Meridians of S. Petronius of Bologna, and of the Observatory at Paris, are this Instrument. That of Petronius was traced out in 1575, by Egnazio Dante, a Dominican. But M. Cassini finding it defective, drew a new one about the Year The Meridian of the Observatory, begun by M. Picard in 1669, continu'd by M. Cassini and de la Hire in 1683, was at length carry'd to the Foot of the Pyrennees in 1700. The Advantages reap'd from these Meridians, are very confiderable. These famous Monuments of Practical Astronomy have decided the great Question concerning the Variation of the Swiftness of the Sun. Kepler and Boillaud believ'd it in some measure real; all others, Ancients as well as Moderns, believ'd it The Decision is in favour of only apparent. the First.

Moreover, the Observations made by S. Petronius have procur'd Tables of the Sun, more certain than those that were known before. They have given greater light into the Refractions, which increase the apparent Height of the Stars above the Horizon, than the famous Tycho, their first Observer, knew. They have demonstrated the Ellipticity of the Solar Disk at the Horizon (b). In short, by their Help, Astronomers have come to determine at ten Seconds, the Parallax of the Sun, and by that, to set him at a greater Distance from

⁽h) This Ellipticity was observed by Father Skeiner, and afterwards by M. de Mairan.

from the Earth, than former Astronomers

did (i).

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Navigation has enrich'd Astronomy with a great Number of Stars of the Antartick Pole, which compose twelve Southern Constellations, unknown before the Use of the Compass. But the Ancients had under their Eyes and Observation very remarkable Stars, which made 'em run into great Mistakes. The Comets, according to them, were nothing but a fortuitous Collection of Light, liable to a fudden Dislipation. They look'd upon these Bodies fo fit for embellishing Nature, and augmenting the Pomp of the Universe, if not the Cause, at least as the Sign of the divine Displeasure These false Notions had insected the Moderns, and prevail'd always, and every where, till Astronomy was brought to Perfection, and destroy'd them.

Gassendi endeavour'd to cure Men of that Fright that Phænomenon threw them into. M. Bernoulli, Cassini, and many others, have prov'd, that Comets are permanent Bodies, and that they have a certain Course and Rout. But can their Returns be foretold? And can the same Comets appear again after certain Times? 'Tis an Opinion, which however probable it may be, is not as yet very evident. The Appearance of these Stars is very rare; and 'tis but a few Years since the way of knowing 'em has been chalk'd out. There is no Science exhausted; there are some Discoveries still to be made. And the Theory of Comets is yet a Vacuum in

Astronomy.

This Art has been cultivated by all polite The Nations. The Chinese, among others, have always

⁽i) It is certain, that the Sun is at least 23 Millions of Leagues from the Earth.

always pass'd for great Astronomers. If they may be believ'd, Foubi, the Founder of their Empire, was the first who taught this Science: But without depending on uncertain Tradition, it appears, that from the Year 2155, before J. C. the Chinese follow'd certain Rules for calculating Eclipses; and that they determin'd the Equinoxes and Solftices by the Motions of the Stars. They had also in those Times two forts of Years; the Solar, of 366 Days, 6 Hours; and the Lunar, which they made to agree with the Solar, by making use of Inter-Aftronomy was neglected among calations. 'em from the Year 480, before J. C. till the 66th. Then Licou Hin made an entire Course of Astronomy, under the Name of the Three Principles. This Work marks the Number and Arrangement of most part of the Stars. He gives a Table of the Eclipses of the Sun, and fome Observations on the Comets; but he has nothing concerning the Longitude, or Latitude, or Declination of the Stars.

In the Year 164, of the Christian Æra, Strangers taught the Chinele the Use of the Sphere, and of the Celestial Globe. under the Dynasty of the Tins, discover'd the proper Motion of the Fix'd Stars: But he fell into a confiderable Error, by believing the Polar Star to be immoveable. It was not till the 5th Century, that this Star was observed to turn like others from East to West; and that it was distinguish'd by the fixed Point, call'd the North Pole. In 806, the Chinese brought the Compass to perfection. In the 13th Age they began to study Spherical Trigonometry. Their Astronomy receiv'd a great Check afterwards; and the Mahometans, who manag'd

nag'd it after the Beginning of the Dynasty of the Ming, made vain Efforts to re-establish At last it gave way to the European Astronomy, which the Jesuites introduced into

that Empire (k).

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We have feen, that the Mahometans had Mahome. fome Notion of Aftronomy: The most Learn-tans. ed of 'em were in Persia; among whom is reckoned the famous Nassiroddin, who liv'd about the Middle of the 13th Age; and the Arabian Rexedollin, who compos'd a Chronology Anno 1295 (1). They took this Piece of Learning from the Greeks. But the Indians had Pythagoras for their Master, whose Indians. Tenets they follow to this Day, and the Way of Calculating the Motions of the Celeftial Bodies. We fee by the Calendar which M. de Loubere brought from Siam, that all the Astronomy of those People, who are exact enough otherwife, is reduced to the Additions or Substractions, Multiplications or Divisions of certain Numbers (m).

(k) Observ. Mathem. Astron. &c. rediguées par Souciet, Tom. 2.

(1) Bayer. Mufæum Sinicum.

⁽in) Regles de l'Astronomie Indienne, dans le 2. tom. de la description du Royaume de Siam, par M. de la Loubere.

GEOGRAPHY.

TEOGRAPHY, or the Description of T the Earth, is a natural Consequence of Altronomy: For it is, by applying to the Terrestrial Globe the Points and Circles traced upon the Celestial Globe, that Geographers come to fix the principal Parts of the Earth.

It is believ'd, that Sefostris invented Geographical Charts, to describe his Empire, after all his Conquests (n). This Fact being suppos'd, the Egyptians are the first who made an Art of it, which they afterwards transmitted to the Greeks. I have elsewhere spoke of both the Greek and Latin Geographers:

Ancient and Modern Geo graphy.

Parallel of I will therefore confine my felf here to some Reflections on the Ancient Geography, compared with the Modern. In both one and the other the Principles are the same, except a few Circumstances, which it is fit to take notice of.

> 1mo. The Ancients distinguish only Seven Climates; the Moderns admit of Twenty four: For the Countries which are beyond the Seventh Climate were formerly unknown, or were thought to be uninhabited. Frequent Voyages to the North have cleared up that Mistake, and carried on Geography towards Perfection fo far.

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⁽n) Bossuet, Hist. univ. Part 3. Art 3.

2do, The Ancients put the first Climate at Meroe, a Town in Ethiopia, where the Day is of 13 Hours length, instead of beginning it, as we do, at the Place where the Day is 12 Hours: They certainly believed, that the Countries under the Equator were as little inhabited, as those which approach the Polar Circle. Experience has remov'd that second Prejudice, which some Moderns, too slavish Imitators of the Ancients, had still retain'd.

3tio, The Position of the first Meridian has varied at different Times. Ptolemy places it at the Fortunate Islands: The Spaniards have plac'd it at the Azores: We make it pass thro' the Island of Fer, the most western of the Canary Islands.

The Errors which arise from the Situation of Places and their Distances, are of greater Consequence, than the Mistakes which I have taken Notice of, of which please to take some Instances.

The common Opinion of the Greeks was, that Delphos was the Middle of the Earth. This Opinion had nothing for its Foundation but an old Fable, which, when well underflood, meant nothing more than that Delphos stood in the Midst or Middle Part of Greece (0).

2do, Ptolemy confounds the Fortunate Islands
(p) with the Gorgades (q). It is certain, that
the Fortunate Islands lie between the 20th and
N
30th

⁽⁰⁾ Mad. Daciere I en. sur l'Intermede du 3. acte de l'Oedype.

⁽p) Les Canaries.

⁽⁹⁾ Les isles de cape Verd.

30th Degrees of North Latitude; yet this Geographer puts them between the 10th and 20th, which is the true Situation of the Gorgades.

3tio, The Ancients reckon but 378 of those Isles, which are called *Maldives*. Some Moderns, on the contrary, make them amount to 1200.

410, Damastes, in Strabo, affirms, that the Strait of Babelmandel is shut: The Error on this Head is so much the more remarkable, that it is by this Strait that the Eastern People have for a long time carry'd on their Commerce.

5to, The Ancients, who always diminish the cælestial Spaces, give by a contrary Excess to these Countries, that are considered from West to East according to their Longitude, an Extent which they have not.

But there is no Problem of Geography, which has been more agitated than the famous Question about the Origin of the Nile. The Ancients were divided about it; the one Party believ'd that this River had its Source in the Mountains of Atlas; and that they might conduct it into Egypt by the Northern Frontiers of Ethiopia, they were obliged to make it cross over all Africa. The other made the Nile to rife out of the Mountains of the Moon, ten Degrees, according to them, beyond the Equator, in the Country call'd that of the Antichthones, which they plac'd in Africk. We may justly be surprized at the Absurdities which arife from this System; for unluckily they divided Africa on the Eastward towards the E-

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quator, and yet they plac'd their Antichthones beyond that Sea. The Nile, therefore, according to their System, must have cross'd the Ocean, without mixing Waters with it, to

fall down afterwards into Egypt.

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The Moderns, fetting the Ocean at a Dif- The Motance from the eastern Coasts of Africk, have derns. made the Source of the Nile 22 Degrees on this Side the Mountains of the Moon, and have plac'd it in a Country of Ethiopia call'd Joiama, 12 Degrees this Side the Equator. We owe the true Notion of the Rife of this River to Pere Pais a Portuguese Jesuit, and the new Geographers differ very little from his Opinion (r).

The Arabians follow after the Greek Geographers. The most famous is Abulfeda of the illustrious House of Jobides, and descended from Aladil the Brother of Sultan Saladin. Abulfeda was also invested with the Dignity of Sultan, and he died 60 Years of Age, in

the Year 733 of the Hegira.

Of the 28 Tables which compose his Geographical Canon, we have none but three. The first was published by Mr. Hudson, the 25th and 26th have been published by J. Gravius. Let us observe by the Bye, that Abulfeda don't always follow the Greek Geographers: He makes his first Meridian pass by the most prominent Cape of the western Side of Africk, ten Degrees different from the first Meridian of Ptolemy. Befides, he makes use of a Day's Journey of 24 Miles to measure the Distance of Places by, little agreeing in this with the Nubian Geographer, who makes his Day's Journey 30 Miles.

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⁽r) M. L'abbé Perraffon, Sethos, 1. g.

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America.

The Dif. The Moderns owe the great Progress they covery of have made in Geography to two principal Causes, viz. the Discovery of America, and the Invention of Telescopes. Christopher Columbus, a Genoese, observing the West Wind to blow pretty equally for many Days from the Atlantick Ocean, bethought himself that there must be Land in that Quarter whence the Wind blew. With this Thought he parted from the Port of Palos in Estramadura the 3d of Aug. 1492, with 3 Ships which he got from Ferdinand and Isabella of Spain. a Navigation of two Months and twelve Days, he discovered the Isle of Guanatiani, one of the Lucca's; after that the Isles of Cuba and St. Domingo. In three Voyages, which he made in 1493, 1494, 1504, he discovered a Part of the Antilla, the Isles of Trinity and St. Margaret, Cubagna, and the Coast of Veragua. Much about that Time Americus Vespusius, a Florentine, pretended to have been the first Discoverer of the new Continent; and he call'd it by his own Name (s). The new Navigators penetrated into Terra firma; and in a few Years the new World was almost as well known as the Old.

> The fecond Epoch of the Perfection of Geography is still more Modern. In the Beginning of the last Century, Jacobus Metius made the first Telescopes; with this Help the Obfervators, whom the Academies of London and Paris sent into different Parts of the Earth, took the different Points of Longitude, in as easy and sure a Manner, as the Points of Latitude were taken formerly: On these Obfervations.

⁽s) Hist. des l'isses Espagnoles par le Pere Charleroix, pari i.

fervations, Mess. Cassini and de Chazelles made the Planisphere of the Observatory of 27 Feet diameter; and it was by the Help of this Geographical Chart, the greatest, best laid out, and most exact which had ever been seen, that Mr. de L'Ille made his Map of the World, which will always serve as a Model to Geo-

graphers.

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The Chart of Mr. de L'Isle gave the Atlantick and South Seas their true Dimensions: Besides, it corrected the gross Errors into which all who had preceded him had sallen, with Respect to the Distance of the Coasts of Africa and the Coasts of South America, not to mention many other Points of Geography. Mr. Damville, Heir to the Knowledge of this learned Man, treads faithfully in his Steps; and we may venture to say, he is one of the most skilful Geographers now-a-days in Europe, as appears by all the Charts, with which he has enriched the Commonwealth of Learning, and by several Writings which he has published on that Subject.

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NAVIGATION.

THE Art of Navigation is no less ancient than the other Arts: According as Men multiply'd, and the Earth was peopled after the Deluge, they pass'd the Rivers, they cross'd the Seas. The Egyptians, who were good Astronomers, observed those Stars whose Course could be of Use to Navigation: Experience instructed them, and Mercurius Trismegistus reduced into Precepts and Rules those Scraps of Knowledge they had learned by Ex-

perience.

In these first Times, the Arts were communicated from neighbouring to neighbouring People. The Phanicians taught the Egyptians the Art of Sailing; they were the first who made Use of the Cynosura, or Little Bear, in the End of whose Tail is the Pole The Egyptians taught the Greeks the Elements of this Science: But the Greeks, at that Time but little acquainted with the Stars, found it more convenient in their Sea-Voyages to be guided by the Great Bear, or Helice, as the more fenfible Constellation. it don't shew the North, but in a vague Manner, the Greek Pilots had an uncertain Guide; and what also shews their Ignorance, is, that for want of Sea-Charts to describe the Isles and Coasts, they provided themselves with Birds, which by their Flight might shew them the Land they defigned to go ashore on, or which they were afraid of, or defign'd to shun So the Greeks, and after them the Ro-

⁽¹⁾ Plin. hist nat. 1. 6. cap. 24.

mans, who were their Disciples in this Art, contented themselves with coasting Voyages. In the Time of the Emperor Claudius, Hipalus taught the Romans to go to the Indies by open

Sea (u).

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Tho' Navigation was very imperfect in these ancient Times, and tho' their Ships were nothing near so good for Sailing as ours; yet it must be acknowledged, they made a finer and greater Show; they had fomething furprizing The Vessel which Hiero in their Structure. built by the Direction of Archimedes, had twenty Tire of Oars: That of Ptolemy Philopater, was 280 Cubits long, 38 broad, and 50 Cubits high, and had 40 Tire of Oars (x). It is believed, that in all these Vessels, the Tires or Banks of the Rowers were all above one another, not perpendicularly, but in an oblique Manner, and as by Degrees or Steps. It is true, it could not be easy to manage Oars of 38 Cubits; therefore it was, that, as (y) Plutarch fays, those Ships were not so much for Use, as for Pomp and Shew: And to speak justly, according to Vegetius, there were none but those of five Tire, and of the leffer Size, that were fit for War.

Let us pass over some Ages after the Fall of the Roman Empire, as of no consequence to the History of Navigation, and come to the Invention of the Compass; at this samous Epoch, the Art of Navigation began to be improved, and by little and little brought to that flourishing State, in which we see it at present. The Ancients knew nothing of the Load-stone, but its attractive Virtue. It was

⁽u) Dodwel de Art. & ætate populi maris Erythræi.

⁽x) Athen. lib. 5.

only in the thirteenth Century, that the Property of this Stone's turning of itself to the Poles of the World, and that it communicates this Property to Iron, was discovered. To these two Experiments we owe the noble Treasure and Invention of the Mariner's Compass.

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It is not certain, whether it was fohn Goya a Mariner of Melphi, or some other before him, who sound out the Use of it; but it is certain, that it is only since the Time of that important Discovery, that Bartholemi Dias, a Portuguese, opened a new Road to the Eest-Indies, by doubling the Point of Africk, which he called the Cap de Tourmentes, and which has been called since the Cape of Good Hope; and that soon after, America was discovered, and other unknown Countries.

Tho' the Needle, touch'd with the Loadstone, has a natural Bent to hold itself in the Meridional Line, by turning one of its Extremities to the North, and the other to the South; yet it is subject to Variations at different times. It was observed in the Reign of Charles IXth to decline towards the East. about Four Degrees. Under Henry the IIId. it appear'd entirely parallel to the Poles of the World; and under Henry the IVth, it began to decline towards the West; and to this Day it goes on declining that Way (2). Whence it is clear, that the Variation of the Compass cannot be too carefully observed; and that the Want of Exactness in these Observations, occasions oft-times great Mistakes in Navigation. As the ordinary Method don't sometimes mark this Declination, nor with that Exactness which were to be wish'd, Mr. Meynier, the King's Engineer for the Marine, has invented

⁽²⁾ Journal des Sçavans, Octob. 1732.

vented an Instrument, which has been approv'd of by the Academy of Sciences (a).

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The Glory of carrying the Art of Navigation to its last Perfection has been reserved to our Age and Nation. M. de Chazelles has made a good Use of the Gallies of the Ocean, for halling the Vessels. He has made most of the Charts, which compose the two Volumes of the French Neptune; a Work of great Value, since it comes from an able Hand: But there is yet something of greater Importance.

Every Body knows of how great Confequence the Working of a Veffel is, and nothing has been neglected to find out its true Theory. The Fathers Pardies and Holle, and M. le Chevalier Renaud have treated this Subject thoroughly. As their System or Scheme is much the same, and is rais'd on a Foundation not quite fo folid, Mr. Huygens was the first who perceiv'd it, and Mr. Bernoulli afterwards gave a new Theory, whose Principles are incontestable: But the most sublime Knowledge is of little Use if it is not reduced to Practice. With this View M. Pibot apply'd himself to accommodate the Doctrine of Bernoulli to the Capacity of the Sailors, and has made its Use easy by exact Tables (b).

The Working of a Ship becomes more easy, when the Masts are put in a perfect Position. This is a Thing which had not been so carefully attended to, as it deserved.

Mr. Bouguer was the first who observed, that according to the Structure of our Ships, the Sailing Point, where the Force of the

⁽a) Journ. des Sçavans, Nov. 1732.

⁽b) Theorie de la manœuvre des Vaisseaux reduite en pratique. Paris 1731.

Wind against the Sail, and the Effort of the Water against the Fore-part of the Ship, which divides and cuts it, unite together, ought to be in the Middle of the Mast, whose Axis is judged to pass thro' the Centre of Gravity of the Ship. He has also remarked, That every thing else ought to be fo disposed, that the Changes which may happen, may not be able to produce any other Effect upon the Sailing Point, than to make it fall or mount along the Mast. Moreover, as all Shafts of the Wind unite their Force in one Point, which is at the Centre of the Hollow of the Sail. which they fill, Mr. Boguer has demonstrated, that by diminishing the Height, which is ordinarily given to the Sails, and by enlarging them at the Top, 'twould be as good as two Sails, the one at the Prow, the other at the Poup, to make the Veffel go at a great Rate. If this Method be ever follow'd, it will lay afide a great many Masts which are made use of, and it will make Sailing and conducting a Ship more easy (c).

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⁽e) Traité de la Mâture des Vaisseaux.

OPTICK, CATOPTRICK, DIOPTRICK.

THE Sciences we have been discoursing of owe their Progress to Opticks, and the Instruments which it has furnished.

Opticks confider the different Roads, which Optick, the Rays of Light hold in different Medi-Catopums: For those Rays either come to us in optrick, Diagraph Line, when they find no Point of Obstacle; or they are reslected back towards us, when they hit upon any hard or polish'd Body, which they cannot penetrate; or they turn off from their Rectitude, and change their Determination, if they pass thro' many Mediums diversly transparent.

The Ancients and Moderns made but little Progress in this Science, till the new Philosophy took Place. Those who treated of this Part of Mathematicks before that Epoch, were either Physicians who were not Geometricians, or Geometricians who were not Physi-

cians.

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Des Cartes and Pere Malebranche perceived the Necessity of joining these two Sciences together, for the Sake of one Art that depended upon them both. The most compleat Treatise of Opticks is that of Mr. Newton's (d). According to this Author, the Parts of most Bodies are naturally transparent; and that it is only the Multitude of the Reslexions of certain Parts, render them Opake. As to Colours, this Mathematician maintains, that they are radically contain'd in the Rays of the Sun and Light; and that the in-

⁽d) Printed at London, 1706.

inherent Colours of Bodies depend upon the Thickness of the Parts that compose them.

The new Geometry of the North led Mr. Bernoulli of Bale to his Theory of the Curves, which turn upon themselves; these Turnings of the Curves made him discover two general Formulas of Causticks (e), by Reslection and by Refraction; and by that he gives an Abridgment of all the Catoptricks and Dioptricks.

Before the Invention of the Calculation of Infinites, Mr. Tschirnaus had meditated a great deal on that fort of Curves, and gone a good Length in their Theory; and what Mr. Rernaulli had not done, he reduc'd that Theory into Practice, by the Burning Mirrors which he made, the greatest and most perfect that had ever been feen. These Mirrors multiply the Heat, by collecting the Rays of the Sun in the Focus. Tho' this had been known of a long time, it afforded but little Help, because of the Smallness of the Mirrors. Mr. Tschirmaus caus'd these Mirrors to be made in the Glass-houses of Saxony, which gave us a new Sort of Chimie, by apprizing us, that there are no Bodies which may not be melted and vitrified. Philosophers improv'd their Phyficks by this Difcovery, and made Nature better feen. But the Phænomenon which the History of the Academy of the Sciences publish'd on this Occasion, Ann. 1699 and 1700. could have ferv'd only to make People incredulous, if they had not feen the famous Mirror of the Palais Royal, which was the only Thing could remove their Doubts. This Mirror is three Rbindlandick Feet in Diameter.

⁽c) Curves form'd by the Concernse of the Rays of Light, which another Curve has reslected or broken.

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seconvex on both Sides, and weighs a hundred and fixty Pounds. The Mass of Glass it was made from, is said to have weigh'd 700 Pounds; and that it was wrought in Basons. What Assistance may we not expect from so wonderful an Instrument, susceptible of so many Experiments?

The Burning Mirror made Way for the Telescope; for it was by making Burning Glasses, that Jacobus Metius found out, by mere Chance, Glasses for approximating the The famous Galilaus made them afterwards, without having feen those of the In-Marcus Antonius Celio, a Roman Gentleman, brought the Telescope to its greatest Perfection; and they have come, at last, to make the Tube of 76 Feet, as is that of the great Telescope of the Observatory at Paris. To the Glasses for a long View succeeded the Microscope, whose Function is to magnify the smallest Objects, as the Function of the Telescope is to approximate the most distant. Many have excelled in making good Microscopes; but Mr. Homberg ought to be prefer'd to them all, because of the Simplicity and Exactness of those he has given us.

The Art of DIALING.

Rays of the Sun, for dividing Time insto equal Parts. This Science is very ancient. The Dial of Achaz shews, that it was not unknown to the Jews (f). The Chaldeans cultivated it likewise, and the Philosopher Anaximander brought it from Chaldea into Greece.

The first Dial that was seen at Rome, was under the Empire of Augustus: But it was very remarkable, and was the Invention of Manilius the Mathematician; a gilded Ball placed on the Top of an Obelisk in the Campus Martius, says Pliny, serv'd for a Sun-dial; and that Historian adds, that Manilius conceived the Idea of it, from the Shadow that the Head of a Man makes; which is a Proof of the Novelty of this Invention among the Romans.

In the fixteenth Century, some learned Men applied themselves to the Study of Dialing; among others Oronge Finé, and Elie Vinet, Frenchmen; Driander, a German; and J. B. Benedictus, a Venetian: But the Knowledge of the Opticks and Astronomy, at present, has brought Dialing to its last Degree of Perfection.

The Necessity there is for measuring of Time has given the Occasion of many Inventions for that Purpose; and some of them more convenient than Sun-dials. The Ancients ordinarily made use of the Clepsydra, a Vessel with Water, for measuring their Hours.

Vitruvius gives the Description of it in the in the 9th Chap. of his 9th Book. They were laid aside by the Moderns, who invented Wheel Machines, with a Spring, which were much more just. Afterwards the Pendulum Clock was invented, which brought the Measure of Time to the greatest Exactness that's possible.

The Pendulum is a Weight suspended by an inflexible String, ty'd to a fix'd Point, about which it makes, by its free Motion in descending and ascending again, Arches of a Circle, which are call'd Vibrations; the Length of the String determines the Time in which every one of these Vibrations is made. Riccioli, Langrene, Vandelin, Mersenne, Kircher, made use of the Pendulum for astronomical Observations.

In the mean time, Pere Marsenne invented a new Curve, call'd Cycloide or Little-wheel, because this Line is describ'd by a Point of the Circumference of a Circle, which is made to turn upon a Plane. The greatest Geometricians took this Curve under their Confideration; and Mr. Huygens, who had applied the Pendulum to Clocks, found that the Cycloide might ferve to bring Clocks to the utmost Perfection; and he found that there wanted nothing, but to make the upper Part of the Rod of the Pendulum play between the two Rods of the Cycloide. Fromentil a Dutchman made the first Essays of this Method in England, about the Year 1662. To this Method succeeded in that Country, according to Mr. Derham (g), the Invention of the Wheel and Barrels, which he commends very much.

⁽g) Treatife of Clock-work.

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The MECHANICKS.

THE Mechanicks explain the Laws of Motion, and teach the Way of making heavy Bodies move, by the help of Machines.

The Machines are of two different Kinds, the Simple and the Compounded. The first are ordinarily reckon'd fix; the Balance, the Lever, the Pully, the Wheel with its Axletree,

the Wedge and the Screw.

The compound Machines include many fimple Machines in their Construction; therefore it would be very difficult to enumerate them all. But they serve either to raise Weights, as the Crane; or to draw, as the Windlass; or to drive into the Ground, or into any thing else, as the Rammer. It is evident, that this Art supposes the Knowledge of Weights; of the Balance of Bodies, and of their Centers of Gravity; that is to say, of the Staticks.

Egyptians.

There is no Reason to doubt, that the Egyptians were well acquainted with Mechanicks; their Obelisks are a clear Proof of it. 'Twas by the help of this Science, that they digg'd and drew out of the Quarries such huge Stones, transported them to a great Distance, and rais'd them to so prodigious a Height, as has made them the Wonder of the World. They must therefore have made use of Machines much like ours; and if they knew how to do these things easily, they must have had the Mechanicks in great Perfection.

Greeks.

The Greeks also were well vers'd in Mechanicks. Ctesiphon and his Son Metagenes in-

vented

vented Machines for carrying the great Stones. Pillars and Architraves, which were to ferve for the building and ornamenting the Temple of Ephesus. Vitruvius has preserved to us the Description of them (b). This Architect defcribes also at length the different Machines in use among the Greeks, to raise heavy Burdens. The fame, probably, which were af-

terwards in use among the Romans.

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Tho'the Ancients push'd the Practice of this Art very far, yet it is to be doubted, whether they carried the Theory of it so far as the Mo-Galilæus a Florentine, a good Geometrician and an excellent Astronomer, drew from these two Sciences the perfect Knowledge which he had of Motion. He is the first who found out the Proportions of the Vibrations of fuspended Weights, and the Acceleration of the Motion of heavy Bodies in their Fall. be convinc'd of it, read the Abridgment which is ascrib'd to Pere Mersenne, and which contains all that is most excellent and ingenious in the Doctrine of that great Man (k). So useful an Art has not been confin'd to Italy; England has its Prince Rupert (1); France has Descartes, Pere Sebastian, M Pitol, and many others.

(b) Lib. 10. ch. 6.

(k) Nouvelles Penseés de Galilée, 1639.

(1) He lived in Charles II's Reign.

HYDROSTATICKS.

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HEAVY Solid Bodies may be compared with Fluid Bodies; the Hydrostaticks or Hydraulicks, which teach the way of conducting and raising of Water, consist in this Comparison.

Ancients.

Those who have any Knowledge of the History of the ancient Egyptians, know, that they found the way to keep their River within just Bounds, and to make good Use of its salutary Waters, whether it was by spreading them over their Plains, or by raising them to great Heights.

Among the Greeks, Aristotle was the first that wrote of the Equilibrium of Liquids, and who reduced the Flight of Birds, the Motion of Fishes, and the Direction or Steerage of

Ships, to the Rules of Mechanicks.

It is well known with what address Archimedes, who came after Aristotle, discovered the Cheat of the Goldsmith of King Hiero. This famous Mathematician invented that Cochlea or Vice, which by the Motion of an inclining Cylinder makes the Water rise, while it falls. The Water acts by its own Weight in this simple Machine, but it cannot be carry'd very high.

Ctesibius, by making Use of a more compounded Machine, which has kept the Name of its Inventor, (m) knew how to make Water rise to all forts of Height, which is in Use at present, as are the several other sorts of Pumps. But of all the Hydraulick Inventions of the

⁽m) Pump of Ctefibius.

Ancients, there is none of greater Importance, than the Invention of Water Mills; for, as Vitruvius describes them, they seem to have refembled ours pretty much (n). It's true, they were not fo common in these times as they are now-a-days; and it's what Pliny remarks very clearly, when he speaks of a Way of grinding

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The Moderns knew little of the Hydrostaticks before Galileus (p). This great Man being ftill of Opinion with the Ancients, that there was no Vacuum in Nature, attributed the Elevation of the Water in the fucking Pump, to the Abhorrence of a Void. Torricelli, his Disciple, remarked, that when one plunged into a Veffel full of Mercury, a Tube close at the upper End, the Mercury remained inspended in the Tube at a certain Height, and that it fell into the Vessel when the Tube was open. Torricelli communicated this Experiment, but without referring it to the true Cause; but by repeating it often, he conjectured, that it might be the Effect of the Weight of the Air.

M. Pascal took hold of the Notion, and after being affured of the Fact by Experiments which he made, and published an. 1647, he endeavoured in 1648, to affure himself of the Cause; and his Essays and Experiments made him know at length what Toricelli had only conjectured: and what the great Duke's Mathematician had only faid doubtfully, Mr. Pascal demonstrated by the famous Experiment he made upon the Pit of Domme, and afterwards in Treatifes which he publish'd (q).

(n) Liv. 10 ch. 10 de la Traduction de Mr. Perrault.

(a) Hift. nat 18. c. 10.

(p) He died 1542.

(q) De l'Equilibre des Liqueurs, & de la Pesanteur de la Masse de l'Air.

Air Pump. Some time after, Guerick Burgomaster of Magdebourg, made an invincible Proof of this Truth, by his pneumatick Machine; by two Plates of Brass, applied close to one another, which sixteen Horses, by drawing, could not separate from one another; and by a little Figure of Glass, which descended in the Tube when the Weather was about to be rainy, and came out when it was about to be fair.

Barometer This little Prophet was famous for some time, and at last gave place to the Barometer, especially after Mr. Huygens and M. Amontons

had given theirs.

After the Invention of an Instrument so necessary for knowing the Heaviness and Lightness of the Air, nothing was more easy than to find out the Thermometer, to mark the different Degrees of Heat and Cold. It appeared an. 1673; and a long Time after, that of M. Amontons appeared; an Invention, says his Historian (r), "which is not only useful for Practice, but which has given new Views for Speculation." This able Mechanist had before presented to the Academy of Sciences a new Hygrometer, which was much approved of. It is, as every Body knows, an Instrument for measuring the Humidity of the Air.

The Experiments which had been made for knowing the Properties of Fluids and Liquids, mov'd Mr. Mariote to make many Observations which had not been touched on. These Observations led him insensibly farther than he had thought. He enriched the Hydraulicks with a Number of Discoveries on the Measure and Expence of Waters, according to the different Heights of the Reservoirs, and their different Adjuncts. Afterwards he examin'd

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⁽r) M. Hentello. Eloge Hift. de M. Amontons, &c.

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what concerns the conducting of Waters, and the Strength which the Pipes required for refifting their different Burdens.

It is a delicate Matter enough, and requires fine Ideas, and a good deal of Resource and Knowledge to remove Difficulties, and a great Dexterity in the Execution. M. Mariote was Mafter of these Talents in an eminent Degree, and was fingularly good at making Experiments. He made them for most part at Chantilly and at the Observatory. M. Mariote had nevertheless neglected that which concern'd the different Pumps, and other Machines which might ferve to raife Water: This Part of the Hydrostaticks was altogether new, or had been touch'd but very imperfectly, when the Chevalier Morland undertook to treat of it (s). If he has not exhaufted his Subject, he has at least given Light enough for carrying on the Theory and Practice of it very far.

MUSICK.

Sounds, which are capable of producing any Harmony. It's in this, that the Theory of this Art confifts: but practical Musick is the Imitation of the Sounds which Nature makes Use of to express her Passions and Sentiments; and these Sounds are reduced to a continued Chant or Song, which is called the Subject. To come at this, Musick employs Accords, which imitate Natural Sounds; Meafure

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fure and Motion, which imitate the Progression and the Motion of these Natural Sounds. Therefore its principal End is to touch; and it cannot but please, because every Thing that is according to Nature is always agreeable.

Musick, the younger Sister of Poefy, has been

cultivated in all Ages.

The Ifraclites knew the true Use of it; they made it serve to proclaim the Praises of God, and to give a Relish to moral Precepts. Such Songs must have been excellent, grave, folid, and at the same time touching and various.

The Instrumental Musick of the Hebrews was no less Excellent. The Scripture seems to attribute supernatural Essects to it (t). We don't know what were their Instruments; it is only certain that they had a great Number of both Wind and Stringed Instruments.

Ifraelites.

Tho' the Israelites were always given to Musick, yet we may look upon the Reigns of David and Solomon to have been the Age in which it was most flourishing. There were then 288 Musicians appointed to fing in the Temple, and to instruct their Scholars. David himself was very well skill'd in Musick. We need not doubt, but his Subjects, after his Example, made considerable Progress in it; for the Inclination of Kings tends very much to the Advancement of the Arts.

The Songs of the Hebrews were ordinarily accompanied with the Dance; and the Chorus, which is so oft spoke of in the facred Books,

was made up of the two together.

The Egyptians, according to the Example of the Israelites, consecrated Musick to Religion.

Clemens

⁽t) Kings, B. 1. ch. 16. v. 23.

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ole. s been Clemens Alexandrinus (u) makes the Chantor, with a Symbol of Musick and a Book of Hymns in his Hand, to walk at the Head of their Holy Processions.

As this Art was never employ'd in a profane Way, the Egyptians rejected those fost and effeminate Airs, which inspire nothing but false Pleasure, and retain'd none but those noble Accords or Harmonies, which raised the Heart and Spirit.

Mercurius, according to Diodorus Siculus (x), invented the Harp, the gravest of all the Instruments of Musick. Osiris had before made the simple Flute succeed to the Flute with several Pipes of unequal Length; he also found out the Trumpet and Timbals to animate his Soldiers.

It was in Egypt that Pithagoras got the Taste Greeks. and Knowledge of Musick, which he communicated to the Greeks. Jamblicus (y) gives us a great Idea of it, when he affures us, it was proper for allaying and curing the Passions; but he is furely mistaken, when he attributes the Invention of it to this Philosopher. It is faid, that he explain'd by different Tones the Things that did not fall under the Senses, and that he imagin'd a Harmony in the Heavens for regulating the Course of the Stars. The Love which he had for Musick, made him reduce to this Art things that were much removed from it. He found new Accords, and a certain Measure in the Strokes of the Hammer, when a common Tradefman beat upon the Anvil (z). A Philosopher is always a learning, every Thing instructs him.

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(x) Lib. 1. Sect. 1.

⁽y) Vit. Pythag.
(x) Rapin Compar. de Platon & d'Aristotle.

The Age Pericles lived in feems to be the most remarkable for Musick. This great Man built the Odeon and instituted the Plays and mufical Contests at the Panathenean Festival (a). The Prize and Marks of Honour, with which those who carry'd it and excell'd were rewarded, excited an extraordinary Emulation among those Spirits, who were naturally Am-

bitious and Jealous of Glory.

In those days Musick had something Masculine and Warlike in it. It was defign'd to inspire nothing but Virtue, and to celebrate the Heroes. The Severity of the Dorian Mode was very proper for this, and Pindar made Use of it in his Lyrick Poefy. The Phrygian and Lydian Modes were afterwards introduced. which were good for nothing, but to foften the Youth, and flatter their disorderly Passions. Plato banished them his Commonwealth (b). But it is to be believed, that so wise a Regulation was as little observed as the other Rules of that Philosopher. Phrynis was the first, who in the Time of Socrates corrupted this Art by languishing and effeminate Airs, or tender Airs as we call them now; and it is aftonishing that we should imitate so decry'd and poor a Musician, in this Point.

Rhythmick Mufick.

We must observe, that the Musick of the Greeks was of greater Extent than ours. It comprehended five different Arts. The Rhythmick Musick regulated the Cadence in all forts of Motions; the Dance, Theatral as well as

Lyrick, belonged to its Jurisdiction.

Metrick.

Metrick Musick taught to observe Measure in rehearing Dramatick Poems; for among the Ancients, the Rehearing of the Dramas

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⁽a) Plutarch in the Life of Pericles. (b) De Repub. 1. 4 De Legibus, 1. 7.

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was a melodious Declamation, which had different Modes, and kept a mid way between the true Chant or Song, and the Pronunciation of familiar Discourse.

The third Musical Art is the Organick Mu-organick. sick, which teaches to play upon the Instruments. The Wind Instruments were comprehended for the most part under the Name of Tibiæ, or Flutes; in general, they call'd those streight Flutes, whose Tones were low; and those left, whose Tones or Notes were sharp. The String'd Instruments had their Strings placed over a void or hollow Bounding. The different Configuration of the hollow Part of these Instruments, made some of them get the Name of Testudines or Lyres; others that of Chitharas, Harps, Guitars, Virginals, &c.

The Hypocritick Musick made the fourth Hypocri-Class. We should call it now-a-days, the Coun-tick.

terfeit Musick; it regulates the Gesture.

The last of these Arts was the Poetick Mu-Poetick, sick, which taught the Measure of Verse, and their Rehearsal. I believe it differed from the Metrick Musick, by this, that it treated of the Theoretical Melopy; and the other of the practical Melopy. In Greece the Poets themselves noted their Pieces; and these Notes had their Tone by virtue of a Figure proper to each Note (c).

It is evident that Musick, properly so call'd, was among the Ancients contain'd in the Rhythmick; for the Rhythmick gave Rules for all the Sounds, as also for all the Motions of the Body. It was divided into three Kinds, the Diatonick, the Chromatick, and the Hemiharmonick; which made three Systems, with regard

(c) M. L'Abbé de Bos, Reflex. critiq. sur la Poesse & Peinture.

to the different Intervals which are observed

in the Progress of the Composition.

Musick also varied according to the different Lyrick Poefies; for the Greeks had them of different Sorts. The first, consecrated to the Worship of the Gods, was call'd Prosodes: The other was fung by the Crew when they embarked, and they were called Apostolick: The third were the Peans, military Songs, in Use both before and after Battel.

The Songs at Table were of two Sorts, the Dithyrambricks and the Scholies: There are Examples of them in Homer and Virgil. But they foon degenerated from the Nobleness of their Origin; and from the Time of Aristophanes, the Dithyrambrick Poets passed for the Corrupters of Musick. At length the Verses or Songs made for the Dance, call'd Hyparchemes belonged to the Chorus's of the The-

aters (d).

The Romans, who were Heirs of the Greek Politeness, retained their Musick: but after the Extinction of Paganism, and the shutting up of the Theaters, St. Ambrose preserved only for Divine Service the Modes called Authentick St. Gregory afterwards added those called Plagaux; fo that he made the Chant both more Beautiful and more Expressive, which before him had nothing to recommend it but Gravity only. At that time the Sounds were marked by the Seven first Letters of the Alphabet, and that Use lasted to the eleventh Century.

Guy d'Arrezzo, a Benedictin Monk, who liv'd at that time, took the Resolution to mark them by the Points distributed on different Lines, so that the Position of every Point design'd and specified a different Sounding. This Method was

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^[1] Blondel. Comparaison de Pindar & d'Horace.

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very simple; but it had one essential Fault. In the Gamut of Guy, the Measure of the Length of his new Notes was not seen and conceiv'd. It was a long Time after, and in the Reign of King John, that Jean de Meurs, a Parisian, found out a way of expressing the Value of those Points, by the different Figures which he gave them.

The Humour for Musick increased in France, and spread over the Low-Countries, when Francis I. and Charles V. took the fine Arts under their Protection. The most famous Musicians of Europe were either French or Flemings: Italy itself, which is so jealous of its Rights with regard to Musick, had recourse to France: Gaudimelle is a Proof of it. It's true, it paid its Debt to us, by giving us Lulli.

In Effect, this excellent Man brought Mufick to fuch a Degree of Perfection, that a fine Genius of this Age has demonstrated, in a learned Differtation, the Superiority of our Mufick above that of the Ancients, of which fo many Wonders have been written. Study and Practice made all the Musicians that preceded Lulli; nothing but Genius made him; I mean, a natural Conception of what is fine, which often raised him above Rules and Precepts: 'Tis this which made him throw into all his Compositions those fine, lively, delicate, and expressive Turns, that they may be call'd the Poefy of Musick, and which will always distinguish the Great from the Common Masters in this Art.

FORTIFICATION.

THE Necessity of making fure and safe within, and providing against Attacks from without, has given the Art of fortifying Places a considerable Rank amongst the Parts of the Mathematicks. The Origin of this Art is not doubtful.

Cain first fortified Towns.

Cain, after the Murder of his Brother, built the first Town, that he might shelter himself, as in a Place of Refuge, from the Hatred and Abhorrence of Mankind (e). After the Deluge, Nimrod, says the Scripture, began to be powerful on the Earth. The Number of the strong Places of this Conqueror is told (f). Pharaoh King of Egypt, Persecutor of the Israelites, caus'd to be built on the Frontiers of his Kingdom, the Fortresses of Philom and Ramazes (g).

As for the Manner of fortifying Towns, used among the People of the East, we see in the Chronicles (b), that Ezechias raised the Walls of his Towns, built Towers from Space to Space, and surrounded the first Wall with another Wall without it. It was in these Towers they put Machines for throwing their Darts and great Stones (i). The Besiegers also had their Machines, which they plac'd upon

Ramparts

⁽e) Gen. c. iv. v. 17.

⁽f) Gen. c. x. v. 8, 10. (g) Exod. c. i. v. 11.

⁽b) Book II. c. xxxii. v. 5.

⁽i) Chron. Book II. c. xvi. v. 151

Ramparts made for the purpose, and made Trenches to fecure themselves from the Sallies

of the Befreged (k).

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The Greeks, who took both their Offensive and Defensive Arms from the People of the East, took also from them their Method of attacking and defending Places; as also the Order of Encamping, Marching, and the Manner of Ranging their Troops in Battel. To be convinc'd of this, compare the Account the Scripture gives of the military Art of the Hebrews, with the Account Homer gives of the military Art of the ancient Greeks. There you fee Chariots with two, three, and four Horfes; the Cavalry fometimes mixed with the Chariots, fometimes plainly separated; the Infantry appointed to fustain the Horsemen, and the Troops ranged by Nations. But, to confider only what concerns the Art of Fortifying in particular, you may fee among the Greeks, Towns with a double Inclosure, which had for ordinary feven Courts of Guards, of a hundred Men each.

This Manner of making War was continued The Indown to the time of the Invention of Fire-vention of Arms. Gun-powder, which was unknown to and Guns. the Ancients, tho' the Preparation of it is not very difficult, has been made use of only about four hundred Years. He was a German who invented Artillery, according to some Authors, Anno 1354; but they are mistaken: for Powder and Cannon were known in France in 1338. Du Cange makes it appear, that they were made use of that Year at the Siege of Puy-Guillaume (1); and, for another Proof, Vill-

(1) Gloff. Lat. tom. 1.

⁽k) Kings, Book IV. c. xix. v. 32.

Villbardouin fays(m), that, at the Battle of Crecy, Edward King of England caus'd to be placed upon an Eminence a Number of Guns or Cannons, which discharged Bullets of Stone; and he adds, that the Fire and Noise which these fort of Machines made, put the Cavalry of

Philip de Valois in Disorder.

The Invention of Bombs followed that of Cannon; but the 'Learned don't agree about the first Inventor. Some fay, that about the End of the 16th Age, an Inhabitant of Venlo, a Town in the Province of Guelderland, found out the Bomb, and made use of it, on some Occasion, with other artificial Fire-works: Others attribute this Discovery to an Italian Engineer, who, according to them, made trial of them at Bergenopzom. Whatever is in it, it is certain, that the first Bombs which were made use of in War, were thrown in 1588 into the Town of Wachtendonch in Guelderland, befieged at that time by Count Mansfeld. It was only at the first Siege of de la Mothe, in 1634, that they began to be used in France; fince that time the Use of them has been very common. As the Practice of the throwing of Bombs had been regulated by very faulty Tables (n), M. Blondel made excellent Observations on the Subject, which have been but little minded, and therefore the Art has been at a loss.

The Art of Fortification is a Matter of too great Consequence to be neglected by Writers. Vitruvius has treated of the Fortification of the Ancients, in the third Chapter of the first Book; and in the tenth Book, where he discourses at great length of the Machines of War.

As

⁽n) L. 12. c. 65.

(n) These Tables are in the Memoirs of Artillery of St. Remy.

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As to the modern Fortification, the first who wrote of it were the Italians; amongst whom Rameli and Cataneo are the most distinguished. After them were Jean Erard, Engineer of Henry the Great and Lewis XIII. Simon Stevin Engineer of the Prince of Orange, Marolois, Le Chevalier de Ville, Lorini, &c. The Count de Pagan contributed a great deal to the Perfection of that Art, by the solid Maxims he laid down in his Treatise of Fortifications, which was published in 1645.

The flavish Attachment to certain general Rules, oft-times but so and so founded, is the Rock, as 'tis observed, against which all those who have written on this Subject have split. Marshal de Vauban, without subjecting himself to a particular Method, chang'd always his Manner of Fortifying, according to the different Circumstances of the Extent, Situation and Nature of the Ground of the Places he was about to fortify. If he has written nothing of his Art, we have 300 old Places, where his Works are to be seen; and 33 new ones which reveal his Practice, and instruct better than Books.

He was no less skillful in the Attack than in the Defence. We are obliged to him for the Invention of the Parallels, the Places of Arms, the Cavaliers of Trenches, and the Ricochet Batteries, or Duck and Drake Batteries. The happy Success of 53 Sieges which he conducted, shew how much he improved that Part of War, which, the very considerable, was but little understood before this Mareschal.

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ARCHITECTURE.

THE Art of Fortification has only Strength and Solidity in its Defign: Architecture joins an Elegance and Beauty to the Solidity of Buildings, which Fortresses are not susceptible of. Necessity occasion'd the Invention of Architecture, and the Vanity of Men embellish'd The good and bad Taste of People have fuccessively spoil'd and recover'd it. The first Habitations were Cottages in the hot, and Caves in the cold Countries (0): which fufficed to protect them from the wild Beasts. when Interest and the Passions had arm'd Men against one another, or when induced by the Pleasure and Comforts of Society, they resolved to build Houses and Towns; then it was, that they pierc'd the Quarries, and employ'd Masonry. They improv'd in the Trade daily, till by degrees they arriv'd at fomething like Perfection in Masonry. They substituted Pillars instead of Posts, which supported their ancient Habitations. Architraves took place of the Poitrals, which join'd the Posts together, and the Frontons imitated the Ornaments of the Carpenter's Works, which were under the Roof (p).

Egyptians.

The Egyptians were the first who brought Architecture to Perfection; their Architecture resembled their own Character: It display'd over all a noble Simplicity, which is conform and agreeable to Nature, and a Greatness which fill'd

(6) Vitruv. 1. 2. c. 1.

^(#) Vitruy. 1. 1. c. 1. 1. 4. c. 2.

fill'd the Mind, and charm'd it. One reads with Astonishment in Herodotus (q) and Diodorus' (r), the Description of the Labyrinth, that is to say, of twelve Palaces composed of 1500 Chambers, mixed with Terrasses, which communicated together around twelve Halls, and left no Outlet to those who entered. Our Travellers report (s), that there are yet to be seen in the Thebaide four Porticos of an extraordinary Height, on which four long Avenues terminate, and support a long Hall, which is supported by sixscore Columns, intermixed with Obelisks.

Egypt aim'd always at what was great; it rais'd Monuments for Posterity; its Pyramids are still subsisting; the greatest has a Base of 704 Feet on every side, and its perpendicular Height is 630; it ends in a Platform of 48 Feet in Circumference (t). The four Sides of this Pyramid are exposed exactly to the four Regions of the World (u). But as this Exposition, which is so exact, shows that it could not be the Effect of Chance, this Circumstance, join'd with that of the different Seats, which serve as Steps to mount to the Platform, discover, as I think, the Design, viz. of its being appointed for Astronomical Observations.

Chevalier Chardin (x), in his Draughts of the Persians. Ruins of Persepolis, gives us an Idea of the Architecture of the ancient Persians. Their Architecture was very much ornamented; but those Ornaments, the neatly wrought, w. nt

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Taste, and have nothing that's natural.

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(r) Lib. 1. Sect. 2.

⁽s) Voyages de Thevenot.

⁽t) Voyage de Bruyn.

⁽a) Eloge de M. Chazelles, (x) Voy age de Perie.

Greeks.

The Greeks, who were full of Invention, and who were lucky in them, had more Regularity in their Buildings, and more true Beauty. King Dorus confectated a magnificent Temple to Juno in the Town of Argos. The Manner in which it was built was call'd Dorick, when Prince Ion caus'd Temples to be built in Afia after the Model of that which Dorus had built in Greece. A little while after, the Ionians (y) changed fomething in the Proportion, and in the Ornaments of the Dorick Pillars of the Temple of Diana; and the Rule which they followed on that Occasion, was call'd the Ionick Order: That which this Order had most remarkable were the Volutes.

Callimachus, Engraver at Athens, augmented the Number of the Orders; he made them more fine, and put under them the Leaves of the Acanthus with their little Stems. This ingenious Workman took this Notion from the Plant Acanthus, or Bear's Breech, that was raised round a Basket which they had put upon the Tomb of a young Corinthian Lady. In memory of this Invention, they gave the Name of the Corinthian Order to the Pillars, which were surmounted with a Chapiter like that which Callimachus invented (2).

The Greeks having given the Pillars a Proportion and Ornaments, fixed and bounded with regard to the three Orders of Architecture, they regulated the Spaces between the Pillars, and from the five different Manners of distancing and spacing the Pillars, they made five different Kinds of Buildings. The Edifice

of the fifth Kind pass'd for the most perfect, because the Pillars are at a reasonable Distance,

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⁽v) A People of Afia.

⁽x) Vitruv. 1. 4. c. 2.

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e, nd and well imagin'd (a). Vitruvius ascribes the Invention to one Hermogenes, whom he gives also for the Author of the Pseudo-Dipteré (b), and every thing that's beautiful in Architecture (c). So this Art mounted by degrees to that Point of Perfection, in which it appear'd at the Time of Pericles:

This Great Man embellish'd Athens with magnificent Buildings, all conducted by the celebrated Phidias, whose rare Talents were not confined to Sculpture. Plutarch, who had feen 'em, admires a certain young Freshness, which they had at the End of more than 500 Years. Cimon was no less a Lover of fine Architecture; but he put it to its true Use, and did not make it serve the Pride so much as the Conveniency of the Citizens. He was the Man, who fill'd Athens with Galleries, Walks, Squares, and Places of Exercise.

At the Beginning, the Romans built after Romans. the manner of the Tuscans, their Neighbours. The Notion of it may be taken from the Or Tuscan der of Architecture, which bears their Name. It is not only the most simple of all the Orders, and whose Execution is most easy; but is also the most folid, and most proper for supporting a great Mass of Building.

In After-Times, when the Romans were acquainted with the Greeks, they adopted their Three Orders. 'Tis true, they made some Alterations in the Corinthian Order, by putting Leaves of the Olive and Oak, in the place of the Leaves of the Acanthus. refolv'd

(a) This Distance is two Diameters and a fourth.

(c) Vitruv. 1. 3. c. 2.

⁽b) A Temple, the Portico's of whose Pourtour had the Largeness of the double Portico of the Diplex.

Order.

refolv'd also to have another Order of their own; and taking, according to their Fancy, different Parts of the Corinibian, Dorick, and Ionick Chapiters, they compos'd a Chapiter, which constitutes the Roman or Composite Or-Composite der. Some may think this Fifth Order the most

delicate and ornamented: But I am mistaken, if the Connoisseurs think it the most beautiful.

The good Taste which prevail'd at Rome during the Reign of Augustus, extended to ArchiteElure. Nothing was more perfect in this kind, than the Temple of Julius Cafar.

The Corintbian Chapiters, which are yet to be feen in the Beef-Market (d), and which will ferve for a Model, when one would treat of this Order, are a good Proof of the Elegance, noble Simplicity, and judicious Ornaments which must have shin'd in this Temple. The Temple which Augustus consecrated to Mars the Avenger, the Portico of the Pantheon, which Agrippa caus'd to be built, and the Theatre of Marcellus, are the Master-pieces of Art.

In those happy Days arose Vitruvius, whose Authority with regard to Architecture has been fo great ever fince. But as he was only a Learned Man, and was ignorant of the Art of making himself known and esteem'd in the World, he was not trusted with the Conduct of any memorable Work, but the Temple of Jupiter Anxur at Terracina; and he immortaliz'd himself only by the Ten Books which he wrote on his Profession in the last Years of his Life. This Work contributed, without doubt, to preferve the good Tafte Tafte of Architecture under the following

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The Temple of Peace, which Vespasian caufed to be built, after he had shut up the Temple of Janus, Anno J. C. 71, is esteem'd by all the Authors, the Greatest, the most Magnificent, and the Richest which was at Rome. This Prince had adorn'd it with the precious Spoils of the Temple of Jerusalem: And the Draughts which Palladio gives us of that Edifice, don't bely the Testimony of the Cotemporaries (e).

Trajan, tho' a Man of no Letters, protected and encourag'd the Sciences and fine Arts. The Square which he caus'd to be built at Rome, shews, that Architecture flourish'd still in his Time; and it was what the Emperor Constantius admir'd most in Rome, when The Work was he came there Anno 357. conducted by Apollodorus, who had made the Bridge over the Danube, and whom Adrian put to death, from a low Jealousy, in the 13th Year of his Reign. This Prince dedicated a Temple to Plotina, in the Town of Nilmes, which is yet intire. The Curious take notice of the Chapiters of the Corinthian Pillars, and of some Singularities of the Cornice (f).

You need not look for good Architecture after the Two Antonines. The Signs of the Decay of this Art are very visible in the two Triumphal Arches which were erected by Septimius Severus in the Septizone, of which there are some considerable Vestiges in the

P 3 Appian

(e) Lib. 4. del Archit.

⁽f) The Brackets are there placed a-cross; but have no-

Appian Way. And truly, the Taste was much alter'd at that time. It was yet worse when the Goths invaded the Empire. Those People did indeed cultivate Architecture; but at the same time they loaded it with coarse Ornaments, unskilfully placed, and without good Proportions. The depraved Taste lasted after the Invasion and Domination of those Barbarians.

Under St. Louis, about the End of the 13th Century, Eudes de Montreal built at Paris the Churches of the Chartreux, of the Mathurins, of the Cordeliers, of the Quinze-vingt, and fome others. The Ignorance of that Age is very perceivable in these Buildings. Those which were made in the fucceeding Reigns were much the same; they only copy'd what they faw before their Eyes. But as foon as the Study of the Ancients began to be reviv'd, the Taste for Learning and the Arts began to reform, and the Pieces of Architecture which had escap'd the Injuries of Time, when confider'd by the Ingenious, made 'em admire their natural Beauty; that Equality of Relation and Resemblance the different Parts of a Building had to one another, and that Regularity in the Proportions, which the great Masters of Antiquity had observ'd, struck them with Wonder and Surprize.

French and Holians. Men make great Progress in those Arts, which are the Delight and the Care of great Princes. Pope Leo X. the Kings Francis I. and Henry II. lov'd Architecture, and under their Reigns this Science omunted all at once to its utmost Perfection.

The great Church of St. Feter does not want Admirers: But the Buildings of the Louvre are not always valu'd as they deserve. They

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were conducted by Peter Liscet, who is better known by the Name de Clagni. This Architect made likewise the Fountain St. Innocent, a Masterpiece of Art, adorn'd with the curious Sculptures of Jean Gougeon.

The Age of Louis XIV. which abounded with Great Men, produc'd excellent Architects. I don't know, if future Ages shall be able to give the World a Francis Blondel, and a Louis de Van: We owe all that is excellent in the Port St. Denis to the First; and de Van eclips'd Bernin, who was brought from Italy; in the Front of the Louve alone he expos'd all the Riches of the Architecture of the Ancients.

The good Taste of this Art being so solidly established, there remains only, to endeavour to preserve it. With this View, M. Colhert formed the Academy of Architecture, about the End of the Year 1671. At first it consisted only of Six Architects; their Disciples have augmented the Number, and assure to France the Possession of a valuable Property, which it would be a shame for her ever to lose.

JURISPRUDENCE,

CIVIL LAW.

THE Egyptians have recommended them-Egyptians as well by their good Laws, as by the Invention of the most part of the Arts. Their Cultoms were excellent; and they were train'd up to the Observance of 'em. The P 4 Order

Order of their Judgments was also admirable (g), which appears from Solon and Lycurgus, their going into Egypt to be instructed in Law and Justice, and the Forms and Regulations necessary for Society and Government. Thence they brought their Systems, which serv'd to form the Manners of the Athenians and Lacedemonians. Besides, if we may believe the Romans (and why may we not in a Matter of this kind?) the principal Maxims of the Egyptians are found in the Roman Law (k).

Romans.

Numa laid the Foundations of the Roman Jurisprudence. This Prince established the first Laws; and, which is of greater moment, made them be observed, by giving his Subjects an Example of all the Virtues. His Successors added to this Body of Numa's In-

stitutions, Laws which had escap'd him.

Laws of the 12 Tables.

But after the Expulsion of the Tarquins, the Abhorrence of Royalty made the Romans abolish all the Laws of their ancient Masters. And they went to seek for Laws in a Free State, which might be more conformable to the Constitution of a rising Republick. Hence came the Laws of the Twelve Tables, which were taken from the Laws that Solon gave to the Athenians, and which became the Basis of the Roman Law. In process of time, the Edicts of the Pratures, and the Decrees of the Senate and People were joyn'd to 'em. This Law, which comprehended both Publick and Civil Law, the Sacred and Profane, was deposited and entrusted with the Priests,

(b) Ammian. Marcell. 1, 22.

⁽v) Bossuet, Disc. sur l'Hist. Univ. Part 3, Art. 3. Rollin. Hist. Anc. des Ægypt. &c.

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who referv'd to themselves the Knowledge of it, and made it a great Secret. One of them only was prefer'd, and empower'd to give Answers to those who came to enquire and confult him.

Things stood thus, when Caius Flavius, Secretary of the Pontisf Appius Claudius Cacus, stole from his Master the Register of the Forms, which they who had any Action were obliged to use; and where were also marked the Days they could legally plead upon. The Present which Flavius made the People of About the this Register, was so much valued, that he Year of was made a Tribune and a Curule Edile, tho he was only the Son of a Freed Man. For the Romans, at that Time, were as much ty'd to Forms in their Law Suits, as we are now-a-days.

From that Time, the Study of Law became more general. A remarkable Passage of the first Book of the Orator informs us, that it was not reduced into an Art, at the Time of those who speak in that Dialogue: It is certain, it was afterwards; and that it was much studied under the Emperors. We read in Capitolinus, that Marcus Aurelius had studied the Law under L. Volusius Metianus.

From that Time there was at Rome a regular Exposition of the Law, a School of Lawyers, whose Decisions, founded on the most solid Maxims of natural Equity and the purest Light of Reason, have made up the sifty Books of the Digests. The most cele-Digests. brated of all these Lawyers, was Papinian, whom Septimius Severus rais'd to the Dignity of Lord Chief Justice. He had for his Affelsors Paul and Ulpian, who succeeded to him

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in that Office under Alexander Severus; and who were Cotemporaries of Florentin and Marcian, and some others, whom that Prince call'd to his Council.

Imperial Constitutions. The Constitutions of the Emperors were another Source of the Roman Law. There were different Collections made of them at different Times, but the most ancient of these Collections were the Gregorian and Hermogenian Codes. Godfroi believes, that the Authors of these Codes liv'd under Constantin and his Children; for both of them begin with the Laws of Adrian, and continue just to Constantine.

But it is not certain, whether these Codes were made up by publick Authority or not; the Manner in which they are quoted, may make it be believed, that the Emperors authoris'd them after they were published (i).

As for the Codes which appeared afterwards, it is certain they were published by Imperial Authority. Theodosius the Younger published his Code An. Ch. 435, and confirm'd the preceding ones. Afterwards, the Novelles were added to this Code, by the same Theodosius and his Successors; and it was the Law which was observ'd even after the Ruin of the Empire, by the People who had been subjected to the Emperors of the West.

530.

The No-

welles.

Justinian, who was a whole Century after Theodosius, published a Code for the Nations of the East, which was observed in Greece also, and in the greatest Part of the Præsecture of Illyrium; and there was nothing changed in the Body of the Law of this Emperor, till the Reign of Leo the Philosopher. This Prince, considering that his Subjects understood

(i) Tillem. Hift. des Empereurs, passim.

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stood but little Latin, order'd a new Edition of all the Books of Justinian to be made in Greek; this he divided into fixty Books, and are called the Basilicks.

In the mean Time, the Barbarians of the The Nor-North being established on the Lands of thethern Nature, became a little more polite by being tions. mix'd with the Romans, and would have Laws of their own.

The Visigoths, who had feiz'd upon Spain, and a Part of Aquitaine, collected their ancient Customs: This Collection, which began under (k) Evarix, and was carried on to Egic, was confirmed An. 693, in the 16th Council of Toledo.

The Burgundians reformed their Law un-501. der the Reign of Gondebaud, and afterwards made some inconsiderable Additions to it.

The Ripuarians, who inhabited between the Loire and the Meuse, followed their particular Usages.

The Franks, who had plac'd themselves between the Meuse and the Rhine, observed the Salick Law, the Digesting and Confirmation of which, was according to some, the Work of Childebert and Clotario, Sons of Clovis (1).

The Allemands, the Bavarians, the Saxons, the English, the Frisons, and the Lombards, had also their Laws, which had been collected in the Code of the ancient Laws. The Reading of them is not so pleasant at present, but it may be profitable, and some Light, with regard both to Law and History, may be derived from it.

When

⁽k) He began to reign, An. 466.
(d) Fleury Hist. de droit François.

Capitulary of Charles

When Charles the Great had subdued and united all these People under his Dominion, he the Great. gave them general Laws, known by the Name

of Capitulary Laws.

The Troubles of the 10th Century put a Stop to the Study of the ancient Law: But it continued to be observed, without distinguishing the different Laws; because there was then no Dislinction among the People, who are now united.

This Law was much changed by the Eftablishment of Fiefs, by the Right of Freedom of Burghs, and by the Augmentation of Ecclefiastical Jurisdiction, and the little Commerce between Countries, which made great Difference in their Customs.

Origin of

Such is their Origin, according to a famous Writer (m), who wrote first on this important Subject: He adds, that in order to render these Customs unchangeable, they were digested in Writing, and plac'd in three different Classes, viz. The Charters of Towns, the most ancient of which was the Charter of the Community of Beauvais; the Customs of Provinces; the Tracts of Practicks. To thefe may be added, the Decisions of Jean de Mares; the Counsel of Pierre de Fontaines, and his Book to Queen Blanche. These Writings ferv'd for a Foundation for the famous Digefts. Charles VII. form'd the Project of them, which was executed under Charles VIII. and was continu'd down to Charles IX.

But the Study of the Roman Law was in Use, fince the Beginning of the 11th Century. Irneir or Warneir, who had studied at Constantinople, fet about the Reading the Books of Justinian, excited thereto by the famous Dispute a-

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⁽m) Fleury Hist. de droit François, N.19.

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bout the Word As; and he taught them publickly afterwards at Bologne in Lombardy. We 1128. don't find, however, that this Study made any great Progress during three Ages. But Gino Caponi having brought from Florence a Manu-1407. script of the Digests, which the Pisans had 1137. found a long time before among the Plun-Italians, der of Amalsi, this Discovery inspired the Ita-Germans, lians with an ardent Desire for the Roman Law. The Germans also took to that Study, and the French. French were not the last in applying to it. Lessons of that Law were given at Montpelier and Tholouse, before the Universities were erected.

It is true, that the flourishing State of this Science, was not before the 16th Century, and in the time of Alciat: The Example of this Lawyer, who had got great Reputation at Bourges, invited Andreas Tiraqueau, Franciscus Duaren, Charles du Moulin, Antony Conte, Franciscus Hottomannus, Jacobus Cajacius, and a great many others, to illustrate, by their Commentaries, the different Parts of the Roman Law.

As our Manners and Cultoms are very different from those of the Romans; and as Law must of Necessity take new Turns, according to the different Circumstances of Times; our Kings have often made Ordonnances, or Decrees, some of which are in Force, but most of em abrogated: But the Knowledge of them is of some Use, whether it be with regard to History, or for the better entering into the Spirit of the standing Laws.

There are several Collections of those Ordonnances, but almost all impersect. The only exact Compilation is that which was begun by Mr. de Laurier, and continued by Mr. Secousse, in a chronological Order.

Of

Of these Ordonnances or Statutes, some regard certain Points of Law; others turn upon the Preparation of the Process or Suit, in Matters Civil or Criminal; and the most considerable are those of Louis XIV. An. 1667, and 1670. The Order of Judging depended formerly on Custom; and that Custom was different, according to the Jurisdictions where the Affair was prepared; the Ordonnances themselves concerning these Matters, were not definite and distinct enough. Every Thing is regulated now, and the new Laws which appear with fomething of Obscurity, are explained in the learned Writings of those who have applied themselves to penetrate into the Spirit

and Meaning of them.

The ordinary Practitioners have introduced a new Kind of Study, viz. of the Laws of Arrêts or Sentences; for the Law either could not foresee all particular Cases, or is expressed with some Sort of Ambiguity; therefore, to fupply that, wherein it feems to be defective, or to illustrate and explain it, where it is obfcure, the fuperior Courts have established different Maxims, which ferve as a Rule in these Cases, and which fix the Law; this has given occasion to the Collecting of those Arrêts which contain those Maxims. There are a great number of those Collections: They are all known; and it must be acknow: ledged, they are fometimes ufeful, provided nevertheless that we lay not too much Stress upon their Authority.

On the other hand, the Diversity, and even the Opposition of the Customs, &c. in the different Provinces, are the Occasion of great Difficulties, and of a thousand puzzling Questions; those Questions which are called mix'd,

have

have produc'd many Volumes. Some learned Advocates have labour'd these Subjects with Success, and particularly Mess. Froland and Bulenois.

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ECCLESIASTICAL LAW.

AWS made for the Advantage of the Church make up what we call the Ecclefiastick Law. There are two Sorts of Ecclefiastick Right, one call'd the Ancient; which the Church enjoy'd during the first eight Centuries; the new Right, which she began to be posses'd of in the Time of Charles the Great, and is observed still in these Days.

The Book of Canons of the universal Church, form'd the Ancient Ecclesiastick or Canon Law. It was, to speak properly, a Collection of the Canons of the Four first General Councils, viz. of Nice, Constantinople, Ephesus, and Chalcedon; and of siye particular Councils held at Ancyra, Neocasarea, Gangre, Antioch and Laodicea; the Canons also which are ascribed to the Apostles, to the Number of 50, compil'd by an Author altogether unknown, were comprehended in these.

The most ancient Edition of this Code, is that of Stephen Bishop of Ephesus: It was follow'd by some other Editions all in Greek, according to the Use of the Greek Church.

As for the Western Churches, they receiv'd at first a Latin Version of the Canons. This Version, which is very ancient, and of

an unknown Writer, was received in France and Germany down to the ninth Century, while Rome and Italy followed the Version of Dionysius the lesser (n). This Version was much more just, and taken from the last Edition of the Greek Codes, and contain'd several Canons wanting in the ancient. Dionysius added also to it all he could find of the Decretal Letters of the Popes, down from Siricius (s) to Anastasius II. (p); for so they us'd to call the sovereign Pontiss's Answer to the Consultations of the Bishops on Points of Discipline.

Such was the Code of the Canons of the Latin Church, in the Beginning of the 9th Century. That of the Greek Church was at that time confiderably augmented: It had 35 new Canons of the Apostles; the Canons translated into Greek from the Councils of Africk, held in the time of St. Augustine; those of the Council 707, 787 of Trulle, and of the second Council of Nice.

In the mean time, the new Ecclefiastick Law began to be form'd in the West. We have observ'd, that with regard to the Decretals, the Collection of Dionysius left a Void of 400 Years. One Isidore a Spaniard, to whom some give the Surname of Merchant, undertook to fill up that Chasm. The Method he used is most singular: This bold Collector forg'd a number of Decretals out of his own head, which without Ceremony he ascrib'd to the old Popes, the Predecessors of Siricius; and as for the other Decretals, which are justly called by the Names of their Authors, he followed a Version prior to that of Dionysius.

This

⁽n) He liv'd in the 6th Century.

⁽o) He died in 398.

⁽p) He died in 498.

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This Collection of Isidorus having been brought from Spain, was spread over Germany and Gaul, by Riculphe Archbishop of Mayence; and it was shown in the Council of Aix la Chappelle in the Year \$36, and received in the Capitularies of our King. How gross soever the Imposture of these Decretals was, the Ignorance of that time in Matter of Criticism made them pass for genuine, and, which certainly will appear astonishing, 'tis only in this Age that the old Prejudice is wholly removed.

The Troubles of the tenth Century made the Canons to be forgotten; and when the Study of 'em was renewed, they were obliged to collect them at a new Expence. Burchard Bishop of Worms, and Ives of Chartres, made their Collections at different times; and, fome Years after, Boniface, a Benedictin Monk of Bologne, published his Collection; he did not forget the false Decretals, and he added several Passages of the Fathers to the Constitutions of the Popes: Gratian call'd his Work, The Concord of the discordant Canons, a Title which anfwers the Defign of the Author, to reconcile Authorities which feem fometimes to clash with This is what is now call'd, The one another. Decree. As foon as it appear'd, it was look'd upon as the only Body of the Canon Law.

There were many Collections of the Decretals fince the Decretum of Gratian; but the only Collection which has preserved its Authority, is that of St. Raymond de Penasort, a Catalonian Dominican; it was composed in 1334, by the Order of Gregory IX. It contains the Decrees of the General Council of Lateran Anno 1215, and the Decisions of the Popes, distributed into five Books, according to the Odifferent

different Matters. This Collection goes only

Decretals. by the Name of Decretals.

After this Boniface VIII. in 1298, and John XXII. in 1317, caus'd to be publish'd the Constitutions of Innocent IV. of Gregory X. and of Clement V. made in the two General Councils of Lyons, Anno 1245 and 1274; and in the General Council of Vienna, 1311. Of these two Collections, the first is called, The Sixth, because it is in place of the fixth Book of the Decretals; and the second is call'd Clementines; but the fixth has little Credit in France, because of the Differences between Boniface VIII. and Philip the Fair.

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The Constitutions of John XXII. and the following Popes, and those of some former Popes, pass under the Name of Extravagantes, from the Latin Word, to wander about; which shews, that they were never in any of the other

Collections.

After this manner, the Body of the Canon Law increased to a huge bulk; and many new Ecclefiastick Laws were established, which were unknown to Antiquity; but Ignorance, the Corruption of Manners, the Sovereignty of the Popes, and the Temporal Authority of the Bishops, brought them into the Discipline. To all these Causes, the great Schism of Avignon may be added (r), during which, Dispensations and Cenfures became very frequent. A famous Author, whom I have followed as my Guide in this Article, fays, "That during the " Schism, the Church of France always declared " that she would maintain her ancient Liberties, " and reject whatever was introduc'd in the " later

⁽r) About the End of the 14th Century:

" later Times by the fole (s) Authority of the

" Popes, against the ancient Canons."

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The Councils of Constance and of Bale refolv'd to correct those Abuses; and while the Council of Bale was sitting, the French Prelates assembled at Bourges in presence of Charles VII. They acknowledg'd the Council of Bale for a lawful Council, and received several of its Decrees with some Modifications.

The Pragmatick published in France, and the Concordat pass'd in Germany in the 1477, under the Emperor Frederick III. regulated the Disposition of Benefices. But the Pragmatick, which was taken from a Council odious to the Church of Rome, yielded in some Points, after long Resistance, to a Regulation, which was made at Bologne in 1516, between Pope Leo X.

and Francis I. King of France.

Thus France, which was always on its guard against the Novelties introduced by the ultramontain Canonists, preserv'd its ancient Usages, which are call'd, The Liberties of the Gallican Church. They depend principally upon two Maxims, viz. 1mo, That the Power of the Church is altogether Spiritual, and does not extend to the Temporal. 2do, That the Plenitude of the Pope's Power ought not to be exercised but in Conformity to the Canons(t). As for the other Countries of Christendom, the Tribunals of the Inquisition, and the Remembrance of the Disorders which the Contests between the Emperors and Popes occasion'd, have hindered them from afferting their Rights, as France has done.

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(t) Ibid. Part III.

⁽s) Fleury, Inft. du Droit Eccles. Part I. ch 1.

THEOLOGY.

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Having spoke of human positive Law, which is the Object of Ecclesiastick Law, and regards Discipline, we pass on to divine positive Law, as it is contained in the Scriptures, which is explained by the Tradition of the Church, and concerns the Faith and Rule of Manners. That part of it, which turns principally upon the Tenets and Doctrines, is called Theology. Its Principles are unchangeable, because they are so many eternal Truths; but the Manner of teaching them has been different according to the Times.

Ifraelites.

The Belief of the Israelites was the same with ours, except, that some of the Truths which it contains, tho' already revealed, were delivered to them in a certain obscure Manner, and the others were clearly proposed, and these were Matters of publick and private Instruction and Duty. The First were given them in the Synagogues, that is, Assemblies which are held in every Town on their Sabbath Days. There the Priests, and sometimes the Prophets, taught and explain'd the Law of God to all the People; but this publick teaching did not dispense with the Fathers of Families expounding to their Children the fundamental Articles of their Religion, nor exim'd any Body from continual Study of the Law (u).

Primitive The Method of the Primitive Christians was Christians much the same. They heard the Apostles with Reverence, who spoke to them sometimes in publick,

⁽⁴⁾ Deuter. c. 6. v. 7. &c. Mœurs des Ifraelites, 15. 20.

publick, fometimes in private: They read the Scriptures carefully, and conferred with one another.

During the fix first Ages, there were no other publick Schools but the Churches, where the Bishops explained the Holy Books. Their Method of Preaching the Gospel appears from St. Chrysoftom's Homilies, the Sermons of St. Augustin, and several other Fathers. They also publish'd some Writings from time to time against the Pagans and Hereticks: Such as Justin Martyr's Advice to the Gentiles, and Athanasius's Treatises against the Arians.

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The Pædagogue of Clemens Alexandrinus shews with what Care the Bishops instructed the Catechumens, that is, those among the Infidels who defired to become Christians: They took particular Care of the Education and Learning of the young Students; and therefore it is, that we find so many learned Bishops came from their Schools. The Bishops of great Sees were obliged sometimes to trust the Priests with a Part of the Education of the Youth. The Bishop of Alexandria, for Example, who govern'd a numerous People, established a School in that Town, particularly in Favour of the Catechumens, which became very famous, and where Clemens and Origin were educated, and were its Ornament, and afterwards made many excellent Disciples.

As to the Doctrines which the Fathers taught, either by Word of Mouth or by Writing, they may be reduced to five principal Heads, viz. The Interpretation of the Scriptures, the Articles of Faith, the Christian Morality, the Discipline of the Church, Monastick

Morals and Discipline.

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Study.

Study of all kinds flacken'd after the Ruin of the Roman Empire by the Barbarians, and Ignorance increased apace. But Providence preferved Religion; and, bad as these Times were, the Authority of the Scriptures, and the Traditions of the Church subfifted and were respected; and in a short while after, there arose fome grave and learned Doctors in the Church. as Beda, Rabanus, Hincmar, Gerbert, &c. whose Labours did great service to Religion, tho' for the most Part they did little else but compile, copy, or abridge the Fathers. This Method, if it shew'd but little Genius, ferved to propagate the true Doctrines of the Church, and to clear up a little the Darkness of Ignorance, which had spread over the Western World.

The Bishops either taught themselves, or made others teach for them; for by their Orders the Clerks and learned Monks kept School in the Cathedral Churches and Monasteries. The School of Rome was the most famous of any in the West, and continued so till the Pontificate of Gregory; when it began to decline, as Pope Agathon tells in his Letter to the Fathers of the sixth Council (x).

In the mean time St. Augustin and other Monks, whom St. Gregory sent into England to preach the Gospel, made the Study of sacred Letters slourish there. England became learned in a very short time, and able to surnish other Countries with learned Men; it gave Boniface to Germany, and the samous Alcuin to France; the one form'd the School of Mayence, and Abby of Fulde; the other laid the Foundations of the School of Tours; and from this School came the Schools of St. Germain of

⁽x) Fleury, Hist Eccles. Liv. XI. N. 5.

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of Paris, St. Germain of Auxerre, the School of Corbie, of Rheims, and of Lyons: Charles the Great ordered, that in the Cathedral and Abby Churches there should be two sorts of Schools; the Inner Schools for the Clerks and Monks, the other for Secular Scholars. Benedict of Anian seconded these pious Intentions of the Prince, and appointed Masters for Grammar and Musick in all the Monasteries, and made the Monks set about copying of Books, from which Task they were called Literarians, and in a short Time they made good Libraries in every Monastery.

Pascasius Rathertus, Lodovicus Servatus, Adon and Ratram directed the Studies in several Districts, and did great Service to the Church by their Conduct and Learning. About this time the Normans invaded the Maritime Provinces of France, and laid all waste before them, and drove Learning and learned Men out of that Country, who were forced to take Shelter in Germany, where they erected Schools, and flourish'd under the Reigns of the Othons. At length the Universities of Paris and Bologne Universities other Universities which were formed afterwards; Colleges were also founded in most Colleges. Towns which had not Universities.

It is certain, that the Establishment of Universities and Publick Schools was very useful; but it is also true, that from that time the Bishops gave over teaching, and the young Ecclesiasticks were turn'd over to the Doctors of the Schools, to be taught the several Parts of Learning as well as Theology. Afterwards Seminaries were instituted for the Education of Seminaries the Students of Divinity particularly, which

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continue till this Day, where they are taught

under the Inspection of the Bishops.

Theology was taught for feveral Ages in the Scholastick way; but this Method changed with the Times, which made a famous Wri-Scholafter (y) diftinguish three Ages of the Schotick The-lastick Theology; the first, from Abelard to Albert the Great; the second, from Albert to Durand of St. Pourgain; the third, from Du-

rand to Gabriel Biel.

In the second Age, St. Thomas and Scotus introduced into the Schools the Principles of the Dialectick and Metaphyfick of Aristotle; but they followed different Methods; and Ockam, forming himself upon the Ancient Nominalists, made a third Party. Durand of St. Pourçain, who was Bishop of Meaux, took the Liberty of the Ancient Academicians, and tied himself down to no Form of Doctrine, but took from the different Schools and Ways of Teaching what he thought proper, and advanced a Number of new Opinions.

Good Taste revived with the third Age, and barbarous Terms and Questions of no Moment were laid afide : Peter d'Aily, John Gerson, Nicolas Cleimangies, John de Turrecremata, taught Divinity in a folid Manner. The two following Centuries were remarkable for the Works of Criticism upon the Scriptures, for learned Commentaries, for useful Inquiries into Ecclefiastical Antiquities, and for intire and regular Systems of Divinity; as also for Doctrinal Questions according to the Method of the

Fathers.

⁽y) Dupin, Bibliotheque des Autheurs Ecclesiastiques, Siecle XIV. chap. 5.

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SCULPTURE.

THE Defign of Sculpture was principally to perpetuate the Memory of great Men, and was invented in Egypt. The Egyptians, as Egyptians. they were a good-natur'd People, were very fenfible of good Offices; and in particular, their Gratitude was remarkable towards their Kings who used them well. The first Monuments of this Nature, that are recorded, are two colossal Statues; the one erected in Honour of Mæris their King, the other in Honour of the Queen his Wife, plac'd upon two Thrones, supported by two Pyramids, which were rais'd three hundred Foot high, in the Middle of a Lake; and they occupied the like Space under Water; so that notwithstanding the Extent of the Lake, which was 180 of our Leagues in Circumference (z), these two Statues were conspicuous at a great This is the Origin of Coloffus's, Origin of which the Egyptians invented and erected to Colossus's. preserve the Memory of their good Princes; but which, in other Parts of the World, afterwards were erected, sometimes, as Monuments of Impiety.

The Egyptian Sculptures excell'd chiefly in the Justness of Proportion; they carried that Justness so far, that after having separately cut the Stones which were to form the Statue, those loose Pieces, and which oft-times were not cut by one Hand, when join'd together, made the perfect Statue appear, as if it had

been made of one folid Piece (a).

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⁽z) Boffuet, Hist. Univer. Part 3d, Art. 3d. (a) Sethos, Additions.

The Care the Egyptians took to cultivate this Part of the Art concerning Proportions, and which is indeed the most important or essential, made them probably neglect what we call the fine and embellishing Part, which we admire in the Works of the Greeks. Indeed the Bas-reliefs which are yet to be feen on the ancient Buildings of Egypt, the Figures which adorn their Obelisks and their Mummies, have nothing in them that is fine; if, fometimes, one meets with a Sphinx of a fingular Beauty, it has certainly been made by a Stranger; or, if it was made by an Egyptian, Sculpture must have been brought to good Perfection in the latter Times of their Empire.

Maelites.

The Israelites and their neighbouring Nations were not ignorant of this Art, as is plain from Scripture; the Idols of Laban, which Rachel carried off; those of Bell and of Dagon; the Brazen Serpent; the Cherubims of the Ark, &c. All these Figures, it may be thought, were cast in a Mould; and therefore not to be given as Examples of Sculpture. But allowing it was so, they show still that the Israelites knew Sculpture; for Sculpture teaches Moulding, which is the Foundation of the Art of Founding of Metals.

Greeks

The Greeks, if we may believe them, were the Inventors of Sculpture, and ascribe the Invention to one Debutadis, whose Daughter gave Rise to the Art of Painting, by tracing out the Image of her Lover from a Shadow, which the Light of a Lamp made upon the Wall: But, as we have already given an Account of the Origin of Sculpture from History, we are not to mind this Grecian Story of Debutadis

butadis and his Daughter, which has very much the Air of a Fable.

We may believe, that this Debutadis was a Potter, as were also Ideocus and Theodorus of Samos, who, as some think, were more ancient than Debutadis. It is at least certain, that Calcosthenes the Athenian, Demophilus and Gorfanus were Potters; and if we consider that all the Arts had but weak Beginnings, we shall have no Difficulty in believing, that Figures of Earth or Clay preceded those of Stone and Metal (b).

Plutarch informs us, that the Lacedemonians were the first that made use of Wood to make Statues, which is a Proof how rude the Art was in the Beginning; they made the Statues of Castor and Pollux, those two Brother Twins, of Wood, and held these two wooden Deities in great Veneration; but all the Representation they made of them, was by setting up two wooden Posts join'd together by a Cross-Beam at the Top; these were their samous Docanes, one of the principal Objects of their Worship.

Dædalus brought Sculpture to a certain Degree of Perfection when he return'd from Egypt, where he was taught it; he instructed the Grecian Artificers in some of the nice Parts belonging to this Art; as for Example, he taught them to imitate in their Statues the Attitude of a Man, who is in Action and Motion. Dædalus did not stop there; he made a wooden Venus which mov'd, which was a surprising Thing in those Days; but all the Wonder lay in the Mercury, which the Workman put within

⁽b) Felibien des Avaux. Principes de l'Architecture, de la Sculpture, &c. Liv. 2. Ch. 1.

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within the Figure, and made it play. However, the good People being persuaded of the Presence of the Divinity by the Motion of the Figure, and being afraid their Gods should escape and leave their Temple, they bethought themselves of a Stratagem pleasant enough, which was to chain them; the Statues which Dædalus made were the finest of any, and, as Plato says, setched the greatest Price.

This Art, nevertheless, was as yet very imperfect in Greece; and they had no other School to be instructed in it but Egypt, whither all their Students of Sculpture went. Telicles and Theodorus the Son of Ræcus, were the most famous in those Times; they made the famous Statue of Apoapythius at Samos, of which Diodorus Siculus speaks (c). This Figure, which was admir'd for the Justness of its Proportions, ferv'd for a Model to the Statuaries, and help'd to carry the Art to that Degree of Perfection it was remarkable for in the Time of Pericles (d). Phidias the Athenian, who lived at that Time, furpass'd all those who had appeared before him, in the Statuary Art, whether he wrought in Marble, or in Ivory, or Metals. He made a golden Statue of Minerva, the most famous of all those of Antiquity.

At that Time the Exercises of Body, as Jumping, Wrestling, &c. were brought to the greatest Perfection in Greece. As they strengthened the Body, and were performed naked, they were of great Use for advancing the Art of Sculpture, because they surnished excellent Models to work by; so that it is no Wonder that Sculpture was brought so soon

(c) Lib. 1. in fine.

⁽a) Sethos, Additions.

to the greatest Perfection in Greece, and that it abounded with so many excellent Sculptors, who have never yet been equall'd in the World, as is plain from what remains of the Grecian

Sculpture.

Polycletes made Statues at Sicyon in the Peloponnesus, which the greatest Artificers strove to imitate. Myron managed the Chifel with fo great Dexterity, that he feemed to give Motion and Life to his Works. Lysippus had the Preference of all his Competitors, for casting the Statue of Alexander the Great in Brass. Praxiteles, amongst other Figures, made that beautiful Venus which was carried to the Isle of Coos, and is at this Day one of the principal Ornaments of the Gallery of Versailles: The Horses, which are seen at Rome before the Palace De Monte Cavallo, are done by the fame Hand, and by the celebrated Scopas. Briaxes, Timotheus and Leochart, bestowed all the Riches of their Art upon the famous Tomb of Maufolus King of Caria. This Work, which was one of the Wonders of the World, is not extant, fo that we cannot judge if it deserved all the Praise the Ancients bestowed upon it; but the Laocoon of the Belvedere is a Proof of their Sincerity and exquisite Judgment, when they boafted so much of that admirable Groupe (e). This Piece of Work is commonly faid to have been made by Agefander, Polydorus and Athenodorus.

They who have the Curiofity to know the Names, and the Works of other Sculptors, may confult the Histories which have been written of that Art; but nothing is more proper for giving a just Idea of the Excellency of the Grecian Sculpture, than the Antiques which

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may be feen in Italy, and which we have taken off perfectly in Moulds; such as is, amongst others, the Hercules of the Palais Farnese; the Workman, by his Representation of the Muscles of this Heroe, gives us a great and just Notion of his Strength, and at the same time he expresses also by natural Strokes the tired and spent Condition he was in at the Time.

Such are also the Myrmillo of the Palais Chigi, where you fee the ingenious Mixture of Life and Death in the Statue of an expiring Wrestler; the Venus of Medicis, which is a perfect Imitation of the most perfect natural Beauties. The Antinous of the Belvedere, the Flora of the Palais Farnese, which is of a wonderful Gayety and Lightness; the Papirius Prætextatus of the Vineyard Ludovici; the Rotator of Florence, who is thought to be either the Freedman, who, according to the Account of Tacitus, discover'd a Conspiracy against Nero (f), or the Slave, who, according to T. Livius, discover'd and reveal'd the Plot of the Sons of Brutus for the Restoration of the Tarquins (g): All these Figures are admirable, both for the Expression and for the Correctness of the Design: But nothing is more interesting and affecting than that Piece of the Fable of Niobe, which is to be seen in the Vineyard of Medicis, made up of feveral Statues joined together in the fame Action.

Sculpture, which was thus carried to the utmost Point of Perfection, like all other things, did not abide long in its perfect State: for to reckon from *Phidias* it lasted only fifty Years, then

⁽f) M. Piganiol de la Forie. Nouv. Descrip. de Ver-

⁽g) Abbe des Bos. Reflections Critiques sur la Poesse, &c. Sect. 38.

then it began to decline. About that time Rome pillaged Athens and all the Towns of Greece of their most precious Ornaments: the Theatre of M. Scaurus alone was ornamented with three thousand Grecian Statues of Brass. It is well known, that Mummius and Lucullus brought a vast Number of Statues from Greece. After the Greeks became subject to the Romans, they loft by little and little their noble Sentiments, and that fine Taste which so distinguished them from all other People; and the fine Arts fell into Decay, for they cannot live in

Slavery.

The Romans knew Sculpture before they Romans. were acquainted with the Greeks. Demaratus brought Eucirapus and Eutigrammus with him into Tuscany: his Son Tarquin afterwards brought Taurianus to Rome, who made an Earthen Statue of Jupiter, and the four Horses which that Prince caused to be put on the Frontispiece of the Temple of that God (b). These are probably the first Pieces of Sculpture which were feen at Rome: This Art however made confiderable Progress in this City; and when Marcellus had taken the Town of Syracuse, he carried off and brought to Rome some Statues, of which that Town had a great Number. Then it was that the Romans began to have a Taste of Sculpture, and to fend to other Parts for good Masters of that Art, in which they became tolerably skilful themselves; but it don't appear that they did any thing perfect in that Art, till the Reign of Augustus: The statue of Julia his Daughter, is remarkable for the Beauty of the Drapery,

⁽b) Felibien des Aveaux, Princ. de l'Archi:ecture, Liv. 2. chap. 1.

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which (i), is perfectly well cast, much better than the Drapery of the Antiques of Aster-Times. You may also reckon among the perfect Pieces of Roman Statuary, the Statue of Augustus, which is to be seen at Versailles near the grand Canal; the Bust of Agrippa his Son-in-Law, which is in the Gallery of the Great Duke of Tuscany; and the Bust of Cicero in

the Vineyard Mathæi.

Under the following Emperors, Statuary declined infenfibly, and had fomething in it, I don't know what, dry and immoveable; it was yet much worse in the Beginning of the fourth Age, when they erected a triumphal Arch to Constantine; it was at the Expence of the Arch of Trajan, which they robb'd of its Bass-Relief to adorn the other. The little Skill they had to adjust these deplaced Ornaments, makes it easy to judge how ignorant they were of Sculpture at that Time. It is true, that the Romans did not excell in Bas-Reliefs; for, except the Danseuse of the Louvre, you can't find any thing that may be looked upon as perfect Models. This is the Opinion of an Academician well versed in these Arts (k): "The Ancients, fays he, knew only to cut " Figures of a round Boss by the Middle, and " to Plaster them as it were upon the Bottom " of the Bas-Relief. Befides, those Parts of " their Figures, which were funk, lay too far " from the Eye.

Gotbick.

It is to no great Purpose to speak of the Gothick Sculptures; for every Body knows that they are the Works of a rude Art, form'd in spite of Nature and Rules; sad Productions of barbarous and dull Spirits, which disfigure our

(i) This Statue is at Marly.

⁽⁴⁾ Abbe du Bos. Reflect. Crit. fur la Poef. &c. Sed.

our old Buildings and our ancient Churches. Those who have not the Opportunity of being convinced of this by seeing the Originals, may look into the Monuments of the French Monarchy, published by Father Montsaucon.

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The French and Italians improved in Sculp-French and ture much about the same time; for when Italians. Michael Angelo filled Rome with his Works under the Pontificate of Leo X. and of Julius II. John Gougeon embellished Paris with his Master-piece under the Reign of Francis I. and Henry II. The Bacchus of Michael Angelo is well known; it deceived Raphael, who took it to be a Statue of Phidias's or of Praxiteles. On the other hand, all Paris admired the famous Cariatides of Gougeon, which the illustrious Sarrafin thought worthy of his Copying. At Rome, Daniel de Volterre enriched the Chapels of St. Peter in Montorio with his fine Statues. L'Algarde shewed how capable the Chifel was of imitating Action, by his representing St. Peter and St. Paul threatening Attila. The Cavalier Bernin, the worthy Succeffor of these great Masters, made the Fountain of the Place Navonne; Sta Tereza in an Extafy, an admirable Work in Point of Expression; the Bust of Lewis XIV. which is to be seen at Verfailles; and in which the Character of that great Prince is as well expressed as the Features of his Face; and the Horse of Marcus Curtius, infinitely more fine and perfect than the Horse of Marcus Aurelius, and even than the Horses of Monte Cavallo, which their Inscriptions falfly ascribe to the most famous Sculptors of antient Greece (1).

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⁽¹⁾ Phidias and Praxiteles.

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Flemings.

The Flemings apply'd themselves to Sculpture, and succeeded very well in it. Not to mention those that are yet alive, Erard of Lege, Buister of Brussels, Le Fevre and Laviron of Antwerp are well known in France by some Works which they did for the King. Gibbons and Rootier also of Antwerp wrought in England, and Rootier made Medals of Charles II. and James II.

In France, Sarrasin made Sculpture revive, which the long Continuance of the Civil Wars had almost extinguished, and recovered it to its former Beauty. In the Year 1640 he made a Group which is very much esteemed, and is to be seen at Marly, which represents two Children, who are diverting themselves with a Goat; he afterwards adorn'd some Churches of Paris with his Works: the most remarkable are, the Tomb of Cardinal Berulle in the Carmelites of the Fauxbourg St. Faques, and that of Henry of Bourbon at the House of the fesuits. Sarrasin made Scholars who brought

the Art to great Perfection.

The Anguiers gave the Medals of Mercury and Amphitrite, which have been fince executed in Marble, and which adorn the Groves at Verfailles and Marly. Baltazar and Gaspard Marsy seemed to have exhausted all the Finery of their Art upon the Ravishing of Orythia by the North Wind; upon the Giant Enceladus, a Work full of Strength, and altogether according to the Taste of Julius Romanus, but chiefly upon the Group of the two Tritons, which water the Horses of Apollo, an admirable Piece, which comes up to Nature itself. Des Jerdins made himself famous by a great many Works. Poujet did not so many, but all

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all he did were excellent; you may take for Example his Persius who deliver'd Andromeda, and Milon, the Crotonian Champion: there the Chifel feems to animate the Marble, and to give it the Passions which are fuitable to those two different Subjects. Bas-Relief of St. Charles is a Piece, which wants nothing but Colouring; the Airy Perspective, which was unknown to the Ancient Sculptors, is there very well observed. Poujet put in his Pieces more of the Expression, and Gerard more Grace. The Tomb of Cardinal Richlieu, the Ravishing of Proserpine, Apollo with Thetis, &c. are Pieces of a fingular Beauty, and of a Correctness in the Design, of which the best Sculptors are oft times but little capable. Thus this Art has of a long time passed from the Italians to the French; and they have been oft obliged to borrow our Workmen for Works of Confequence (m).

(m) Poujet, Theodor, Le Grop.

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PAINTING.

SCULPTURE and PAINTING, the Daughters of Design, have each of them their own proper Advantages: The one gives a Relief to its Figures; the other observes the different Tinctures of Bodies; and, to make its Figures resemble Nature, it employs Colourings.

Egyptians.

Greeks.

The Invention of Painting is owing to the Egyptians; at least, as to the four principal Colours. The Knowledge they had of Chymistry seems to make this Opinion certain: Besides, the Paintings which Travellers have occasion to see in the old Remains of the Egyptian Buildings, which have resisted so long the Injuries of Time, and which still retain a fresh and lively Colouring, seem to be a good Proof (n). Nevertheless, it cannot be inferred, either from these ancient Monuments, or from the Testimony of Authors, that the Egyptians were good Painters. On the contrary, Petronius says plainly, that they never made good Painting, and that they spoil'd the Art.

Painting pass'd very soon from Egypt into Greece, where afterwards were form'd the Famous Schools of Lycion, of Rhodes, and of Athens.

Zeuxis represented the Family of a Centaur, in a Picture, whose Composition was very well imagin'd (0). It is known, with what Eagerness he engag'd in the Competition with Par-

(o) Lucian, in his Zeuxis.

⁽n) Voyages de Paule Lucas, Tom. 6. p. 69.

Parrhafius (p); and the Event of that most

fingular Difpute is very well known.

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The Ancients (q) extol the Wisdom of Timantes, who, when he had exhausted all the
Expressions he could make of the deepest Sorrow, by painting the Mother and the other
Witnesses of the Sacrifice of Iphigenia, drew
Agamemnon with his Face veil'd, to mark, that
it was impossible for him to express the Condition of the unhappy Father, who was forc'd to
offer up that innocent Victim.

What is furprifing, is, That these First Painters, among whom *Polignotus* is reckon'd, made use only of four Mother-Colours, which they had borrow'd from the *Egyptians*. They were *Echion*, *Nicomochus*, *Protogenes*, and after them, *Apelles*, who imitated with compounded Co-

lourings all the Shades of Nature.

The last is the most illustrious: His Venus became so famous, that it has been believ'd to have contributed more to the Worship of that Goddess, than all the Fables of the Poets. Painting flourish'd greatly at that Time; and if we can rely upon the Testimony of Pliny, the Greeks had arriv'd to that Skill in the Art, as to paint the Movings of the Soul, and to give Sentiments to dumb Figures. For a Proof of this, he quotes a Picture which represented a Woman pierc'd with a Poignard, and whose Child still suck'd at the Breast. This Picture was drawn by Aristides; the first, fays he, who brought the Handling of the Pencil to so great Perfection. Lucian supports this Account, in the Defcription he gives of the Marriage of Alexan-R 3 der

⁽p) Plin. Hist. Nat. lib. 35. cap. 10.

⁽²⁾ Quintil. Inft. Orat. lib. 11. cap. 14.

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der and Roxana (r), painted by the same A-ristides, and which he describes with all the Graces of Invention, and the finest Allegories.

Ausonius rises very high in his Commendations of these Two Painters, when he speaks of Medea's raising the Poignard against her Children. We may believe 'em; for there is nothing to contradict 'em: For none of the Pictures of the ancient Greeks have come to our hands; only we must take care not to confound the Times.

It must be remark'd, that the Greeks, with all their Skill, were not able to fix the Art of Painting, and preserve it in that Degree of Persection to which Apelles had brought it; and that under Augustus that Art had degenerated very much. The Painters were so charm'd with the new Art of Colouring, that they neglected absolutely at that Time the DESIGN: and by an unskilful Choice, they preserved the Brilliant or Gaudy to the Solid, and Counterseit or False to Natural Beauty.

'Tis Dionysius of Halicarnassus, who informs us of this Change: He was Connoisseur enough to judge of the Merit of the ancient and new Painters. The Testimony of a Greek Author ought to be receiv'd, when he speaks without Prejudice of the Greeks his Cotemporaries.

Romans.

The Romans had a Taste for Painting a long time before this; and Marcellus gave occasion to it, by transporting to Rome all the rare and valuable Pieces of Painting he found among the Spoils of Syracuse. The Ro-

Romans had a strange Inclination for this fine Art; particularly towards the End of the Commonwealth, and under the first Emperors.

It appears nevertheless, by the ancient Writings, that the Painters at this Time were very much inferior to those of Greece. Vitruvius reproaches 'em for not observing always in their Works a certain Adjustment, and for abandoning themselves a little too much to Imagination, without the Government or Rules: Whence came all those Whims and monstrous Ideas, which at this Day are call'd Grotesque: And from thence the Mosaick, or Assemblages of little colour'd Stones and Bits of Glass, sorted and join'd together, which are to be seen in so many Parts, and essentially at Palestrine.

What remains of the Painting with the Pencil in those Times, is so little, that one cannot judge aright of the Merit of their Painters. The Piece which is the most considerable, is That of a Marriage in the Aldobrandin Vineyard: It is boldly executed; but the Nymphea of the Palais Barberini cannot be compar'd with the Landskip of Pietro of Croton; and the modern Paintings would surely eclipse the Figurines of the Tomb of Cestius.

This Art was buried a long time in the West, under the Ruins of the Roman Empire: It was preserv'd with greater Care in the East, though it had lost much of its ancient Splen-

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Cimabue, about the middle of the 13th Century (s), with the Help of some Floren-R 4 tines

⁽s) He was born 1244.

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tines, recover'd it in a great measure, and shew'd greater Skill in the Art, than the Greeks who were his Masters. Till that Time there had been no Painting, but in Fresco and Water-Colours. In the Beginning of the following Age, John Van-Eyck, a Fleming, who is commonly call'd John of Bruges, found the Secret of Painting with Oil (1).

They began to paint in

People were very foon fenfible of the Usefulness of this Invention. Colours were preferv'd a long time; they receiv'd a perfect Oil in he Mixture, and a fort of Varnish, which they 14th Age. could not before give to Pictures. They began then to copy Nature, but not to embellish it: They design'd correctly, but after a dry manner, which had ftill fomething of the Gothick.

Italians.

Gbirlandajo painted in this Taste: Though he surpassed all the Painters of his Time, all his Merit confisted in this, That he was the Master who form'd the Celebrated Michael Angelo (u). Pope Julius II. rais'd the Ambition of this young Painter, by his great Rewards: As he excell'd all that had been before him, he became the greatest Master of that Art in his Time: He excell'd in the Design, and establish'd lis School at Florence. Tho' his Scholars had all follow'd their Master's Manner of School of Painting, Schoftian of Venice (x) deserves to be taken notice of particularly; and his Picture of Lazarus will always be regarded as one of the most perfect which came from that

Michael ringelo, or of 11/2rence.

School of Rapbael,

er of

Rome.

School. The School of Rome, which was compos'd of the most Excellent Painters, ow'd its Origin

⁽t) Felibien. Princip. lib. 3. cap. 5, & 6.

⁽u) Born in 1474.

rigin to Raphael, who was born at Urbino, Anno 1483. Raphael was the Scholar of Peter Perrugin, and the Com etitor of Michae Angelo, and surpass'd them both in Painting. He taught the First many things, which he put in practice when he painted the Chapel of Sixtus; and his Picture of the Transfiguration was a Master-piece of Art, and eclipsed the finest Performances of his Competitor.

fulius Romanus (y), the belov'd Disciple of Raphael, and Ornament of his School, cultivated with great Care, that which is call'd The Poesy of Painting. What Nobleness, what Fertility of Invention! What Force of Thought and Spirit! Every body at first View knows his Pencil by the bold Expressions which seize upon and astonish the Mind. We have very few of his Works: The Triumph of Titus and the Circumcision, are the most remarkable.

Perrin del Vague, another Disciple of Raphael, followed the Manner of his Master: He painted the Muses and the Pierides in a little Piece, which may serve for a Proof of

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To the School of Raphael succeeded That of School of the Carachios, which has continu'd to this prefent Time, and which may be call'd The Second chio's.

and Last Age of the Roman School. The Choice which it has always made of moving Subjects, and a certain tender and gracious Air in its Paintings, which pleases wonderfully, makes up its Character.

Hanibal Carachio was more famous than his Brothers: He defign'd admirably, and with a great Taste. He left behind him many Scho-

⁽x) Otherwise call'd Fra del Piombo. He dy'd Anno 1547.

Scholars; and amongst others, Guerchin, Alban, Lanfranc, Dominico, and Guido. Guerchin diftinguish'd himself only by the Correctness of the Design: Alban painted the Nymphs and Goddesses with great Grace, and formed John Baptist Mola, who was excellent at Landskip. Lanfranc painted in Fresco such beautiful Pieces, as were unknown fince the Days of Raphael. Dominico excell'd in the Expression. This important Part of the Art of Painting thines forth in his St. Paul, St. Jerom, and Guido united two Things, which do not feem to be made for one another, viz. Sweetness and Strength. In most part of his Figures there is a fine Arrangement of the Parts, and a fine Air of the Head. In short, Charles Maratte of our Time, has re-traced the most beautiful Strokes of the Old Mafters.

School of

At the fame Time that the Roman School Lombardy, began to be form'd, Giorgion and Titian, who were taught by John Bellini, establish'd the School of Lombardy. Giorgion dy'd in the Bloom of Youth, and left few Works behind Titian liv'd till he was an hundred Years old, and made himself belov'd and esteem'd by all the Princes of Europe. He taught Lambert Zustrus and Old Palm; and he shew'd the Painters that were to come after him, the Art of flattering the Eyes by the Richness and Trueness of the Colours: An amiable and bewitching Art, which had been a little too much neglected.

School of Milan.

These were the Three first Famous Schools for Painting in Europe; which gave Birth to a great many others. The School of Milan flourish'd under Leonard de Vinci, Disciple of Andreas

Andreas Verrachio, who was fo well known by the Picture of Life. Andreas Solario and 7acobus Pantormus were Scholars of Vinci.

On this fide the Alps, Holben, who was a Swiss, became very famous; and ow'd to no Mafter, but his own Genius, the great Knowledge he attain'd to in the Art of Painting. As for the Colouring, he perform'd better than any of the Painters in the Roman School; and he was almost their Equal in the Com-

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Albertus Durer rais'd the Reputation of the School of Art of Painting in Germany, which before him Antwerp, had been but little understood there. The School or Flanof Antwerp became very famous; and Rubens was its principal Ornament. He was a great Painter; but would have been a much greater, if to the Colouring, in which he excell'd, he had known how to join a correct Defign. Some find fault with him for introducing none but allegorical Persons into his Pieces of History (z), where, amongst other Beauties, the Reflexions of Light are Admirable (a). Vandeyck was the Disciple of Rubens: He was particularly famous for Face-painting; and his Pieces of Belizarius, the Scourging, and the Carrying of the Crofs, are extremely fine.

The Flemish School has always kept up its Reputation fince its first Establishment. It reckonsamong its good Painters, Fordans, Vandeyck's Condisciple, Brill, and Fouquieres, who in their Landskips express'd with the greatest Grace all the Beauties of the Low Countries; Vander Meule and John Paul, who excell'd in painting of Sieges, Battels, and the Taking

(x) In the Gallery of Luxembourg.

⁽a) That Part which is enlightened in the Shade by the reflected Light from the neighbouring Objects.

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of Towns; Vatau, who confin'd himself to little Subjects, but design'd finely, and group'd his Figures with a great deal of Art. At last comes the ingenious Quellins, who is at present the great Master and Glory of this School.

Dutch.

French.

'Tis faid of the Dutch, That they never had a good Painter: But it must be acknowledg'd, That many of their Painters have had a wonderful Talent at imitating what is call'd the Clear-Obscure, by placing justly the Lights and Shades in a small inclos'd Space. Teniers did never any thing that was great; he was incapable of it: But he represented the Country-Sports and Festivals very naturally. Antony More of Utrecht made Face-Pictures, and Corneille Polambourg, Landskips.

The Taste for Painting began in France from the first time of the renewing of that Art. Charles V. had always about him the Fa-

mous Jean de Bruge.

Under the Reign of Louis XI. Rene, Duke of Anjou, King of the Two Sicilies and Jeru-falem, was an excellent Painter, according to the Accounts of Brantome, Rufi, and Bouche. This Prince drew his own Picture, which is kept in a Chapel of the Carmelites of Aix in Provence (b).

Francis I. brought to his Court Andreas del Sarte, and some other good Painters, whom he bountifully rewarded: But neither the King's Liberality, nor the Lessons of those able Masters, were capable of making Painting to flourish in the Kingdom. The French knew not what it was to handle a Pencil, till the Reign of Levis

⁽⁰⁾ Montfaucon, Monumens de la Monarchie Françoise, T. 3.

Louis XIII. Simon Vouet, his chief Painter, having study'd under Valentin, and done a great many good strong Pieces enough, display'd in his last Pieces all the Charms of Colouring, by a lively Opposition of Shades and Lights. This Opposition, nevertheless, was too plain and visible: For Beauties become Faults, when they are carried too far. Jaques Blanchard, without falling into this Excess, gave a Light and Freshness to his Colouring, which our Painters could not imitate.

M. Sucur was Vouet's Scholar: But he did not imitate his Master so clearly in managing the Pencil, as Dovigni did: He painted after Nature, and after the Idea and Conception of what is fine in Nature, and manag'd the Pencil after as many different Ways, as the different

Subjects requir'd.

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Poussin, about that same Time, endeavour'd to restore good Painting at Rome, by opposing his Strong Manner of expressing, to the Soft and Tender, which was then in Vogue. When he return'd home, he form'd the Tasle of the French, as he had corrected that of the Romans. His Pieces of Pyrrbus, of Rebecca, of the striking of the Rock, of the Rapture of St. Paul, of the Landskip so much boasted of, which is call'd Arcadia, shew, that Painting may pass from the Simple to Great, and from Plain and Natural to the true Sublime.

The Attachment which Poussin had to the Antique, gave him an Air a little too austere and stiff in his Works. Le Brun borrow'd nothing from the ancient Sculpture, but what he found Noble and Majestick in it, without imitating that which it had of the Dry and Immoveable. He excell'd in disposing of his Sub-

jects

jects with great Skill: His Ideas were great; his Airs which he gave to the Head, various. In a Word, to compare him with the best Painters that went before him, he had as much Invention as Raphael, and more Vivación than Poussin. Pierre Mignard was exceeding graceful and delicate in his Designs, and in the easy Attitudes which he gave to his Figures.

Such Masters could hardly fail of making good Scholars. The Merit of Mess. Coypel, La Fosse, Honasse, Juvenet, Boulogne, &c. is very well known: Those Gentlemen apply'd themselves only to great Historical Subjects. Others confin'd themselves to Face-Painting; as De Troy and Rigault; to Landskips, as Patel; to the painting of Flowers and Fruits, as Fontenay; to Perspective, as Rousseau; to Ornaments, as Houart, Huliot, and Cotelle.

Invention did not stop at painting with Oil, or in Fresco: Many other Ways of painting were either invented, or brought to perfection at the same time; as painting on Glass, by Enamelling in the Mosaick Way, by Inlay-

ing, &c.

Painting on Glass is altogether modern. A Painter at Marseilles, who wrought at Rome under Julius II. made it known to the Italians, who succeeded in it very well. Amongst others, Lucas Peni, who painted the Glass of the Chapel of the Bois de Vincennes. Albert Durer in Germany, and Luke of Leyden made afterwards a new Improvement in this Art, which has since been carry'd to great Perfection, with regard both to the Beauty of the Design, and Preparation of the Colours. This Way of Painting is totally neglected now-adays. I don't know if there is good reason for it. Let us examine it a little.

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Painting by Enamel is done upon Metals, and on Earth. Enamelling on Earth was in use among the Tuscans in the Time of Porsenna; and after a long Series of Ages, it was renew'd in Italy, under the Pont ficate of Julius II. At that time, they made at Fyance, and Castel-Durant in the Dutchy of Urbino, Vessels painted in the Clear-Obscure Way, of an excellent Defign. made in France, after the same Taste, Works of Metal, known by the Name of The Enamel of Limoges. Pierre Chartier du Blois was one of the best Enamellers.

In these Times, I mean under the Reigns of Francis I. Charles IX. and Henry II. they did not know the Clear Enamelling. John Toutin of Chateaudun practis'd the Dark Enamelling: Dubie brought the Secret to Perfection. Rober: Vauquart of Blois, Disciple of Mortier of Orleans, made the finest Colours on his Enamelling, and defign'd more correctly than his Predeceffors. We had hitherto feen only Enamel'd Pic. tures in Miniature: But those which Jaques Berdier and Jean Petitot brought from England, excited the Curiofity of our Workmen to imitate them, which Lewis du Garnier succeeded in perfectly well.

In the 16th Age, some ancient Mosaick Mosaick. Works were discover'd in several Places in Italy; which made fome good Painters engage in Works of that rature. The very first Essays they made, were much better than the Models they made them from: For the a cient Mosaick Pieces look'd but very indifferent, when compar'd with those which Joseph Pire and Lanfranc made in the Church

of St. Peter.

Inlaying.

About the fame time, they began to work on the Inlaying Way. Pieces of this Work are made, either by two or three different forts of Marble; or with little Pieces of Wood of different Colours; which, by being artfully joyn'd together, represent divers Fi-

gures.

The first Way, by joyning the Marbles, is a Modern Invention; and there is nothing more perfect in that kind, than the Floor of the Cathedral-Church of Siena, which was begun by Duccio, and completed by Domi-The fecond Manner, with nico Becafumi. Wood, was known to the Ancients, according to Pliny (c); but has been very much improv'd by the Moderns. It was begun at Florence by Philippo Brunelesco, and by Beneditto da Majano; and after them, it was brought to its utmost Perfection. If Italy boasts itself so much of Jean de Verone, Raphael's Cotemporary, what Praise don't Jean Mace and the Famous Boule deferve, who made fuch excellent Inlaid Works for Lewis XIV?

Damaskry

Damaskry takes its Name from the City of Damascus in Syria. 'Tis thus that certain Arabick, flat, or Bas-Relief Ornaments, which are made upon Iron with small Threads of Gold or Silver, are call'd. The Ancients were fometimes very fond of this Work. As to the Moderns, the French, fince the Days of Henry IV. have furpass'd all other Nations in this fort of Work; and Curfinet, who dy'd at Paris about the Year 1660, made very fine Works of this nature (d).

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(c) Hift. Nat. lib. 16. cap. 43.

⁽d) Felibien des Avaux. Princ. des Arts, liv. 3. ch. 10, 11, 12, 14, 15.

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THE Art of Engraving Precious Stones On preciwas in use in Moses's Time, as is plain ous Stones. from those precious Stones which were fet in the Ephod and Breast-plate of the High-priest, on which were engraven the Names of the twelve Tribes of Israel. 'Tis probable, that the Israelites learned this Art from the Egyptians; and that the Greeks also had it from them, and the Romans from the Greeks. However that be, it is certain, that the Romans were very skilful Engravers, both in Crystal and in Stone; and that they engraved both in the Hollow and Relievo Manner. made a great deal of Use of the Onyx Stones, and Cornelian; there are a great many of them yet to be feen, which are admired for the Beauty of the Defign, and Excellency of the Work; fuch as, the Apollo of Actium, which is in the King's Cabinet; Antony and Livia in the Emperor's Cabinet; Cicero in the Cabinet of Charles II. King of England; Mark Antony and Cleopatra, of which Father Montfaucon gives us the Defign in his Diarium Italicum; all these Works are of Augustus's Time, and shew, that the Art was then in its Perfection.

Engraving in the Hollow Way was indifpensibly necessary: No publick Act could be authentick but by the Seal; for it was much more easy to counterfeit Writing upon Tablets of Wax, than to imitate a Seal exactly. Thus it appears very evident, that the Seals which the Ancients took care to have on all their

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Acts, made it both impossible to forge the Act, and contributed also to the Perfection of

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Engraving.

Medals.

Medals preserved for a long Time the Elegance of Design, which they lost afterwards in the Times of the last Emperors. There are no Greek Medals of tolerable Beauty to be seen since the Emperor Severus's Time. The Latins preserved the Purity of their Taste longer; but after Gordian the Pious, their Medals degenerated very sensibly, and under Gallienus they were good for little or nothing.

This Art was renewed with others, in the Time of Pope Martin the Vth, about the Beginning of the XVth Century. One of its Restorers was a Florentine call'd Jean del Cornevole, because he wrought only in Cornelian; others afterwards engraved on all Sorts of Stones, and on Crystals, and represented great Subjects. We cannot, without Injustice, but distinguish from the Crowd of common Engravers, the samous Dominico de Camæi a Milanese, who engraved upon a Ruby the Picture of Lewis Le More Duke of Milan.

We must come to the last Age, if we would see Medals in all their Perfection. Jean Varin made those of Lewis the XIIIth, which are excellent, and for their Beauty may be compared with the finest Medals of Antiquity. All the Money which carries the Stamp of that Prince, and that which was made during the Minority of the late King, is by the same Hand, and most exquisitely wrought; for Varin had cut and engraved all the Instruments, and had the Conducting of them in giving the Stamp. After his Death, which happened in the Year 1672, Claud Ballin had the Direction of the Works for Medals, to

the 28th of January 1678. What we have left of that able Artist, shews, that he was a Man of an admirable Genius, great Invention, and exquisite Discernment: Works of Gold which he made for the King, fhew this plainly.

Hollow Engraving ought naturally to have led the Ancients to the Engraving in Taille Douce. It is furprifing, that after they had found the Secret of Engraving both on Marble and on Brass, their Laws and other Inscriptions, they should have stopt there; and that they never thought of engraving upon

Copper the finest Paintings.

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This fo useful a Discovery was reserv'd for the Time of the Renewing of the Arts. Formerly they made fine Miniatures, which ornamented Books at a great Expence; there are to be seen some of these very fine, which were made in the Time of Levois the XIIth. This Custom lasted during the Reign of Francis the Ist; but after that, the Engravers took that Employment out of the Painters Hands; and at first they engraved on Wood. In Wood: A Goldsmith at Florence made the first Essay of these wooden Engravings for Books, and others followed him. Albert Durer and Lucas were of the Number. Hugo de Carpi made Stamps, which appear'd to be of the clear-obscure Manner; he made use of three Plates, of which one was for the Light, the other for the half Light, and the third for the Contours or Circumferences, and the Shades.

This Sort of Engraving decayed gradually Taille after the Manner of Engraving on Cop- Douce. per was found, which was infinitely more easy than the first; and gave to the Stamps a certain Sweetness and Agreeableness. Almost a-

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Aqua for-

bout the same Time they invented the Engraving with Aqua fortis, which is so convenient for great Acts or Decrees, and for Pieces which are intended to exhibit great Art and Design.

The Bounds which I have prescribed to my self, don't allow me to recount all the Engavers, and fine Pieces of Engraving; this Knowledge only concerns a few Connoisseurs of one Kind; but to show to what Degree of Beauty this Art is arrived at, I need but refer you to the Stamps of Van-Schupen, Edelink, Vermeulen, Simoneau, Nantuil, Poilly, Masson, Pino, Mademoiselle Stella, Gerard Audran, Le Clerc, Picart, and many others, who flourish'd under the Reign of Lewis XIV.

The Pieces of these great Masters express the Quality which characterise them. As for Example, every body knows, that Nantuil excell'd for the Description; that Melan, not content with the common Practice of all Engravers, invented the simple Cut; and has imitated every thing by one only Draught, which proceeding always by Turning, is more or less fine, according to the different Objects which he is to represent; Chaveau had a most fertile Imagination for finding out Subjects, and for embellishing them; and an ingenious Turn for ranging all his Figures.

Callot was older than any of these Engravers, and was better known; he had two Properties, the first, to comprize in a small Space a great number of things; the second is, with two or three Strokes of the Graving Tool to describe the Action, Manner, and particular

Character of every Figure (e).

These great Masters have left a worthy Posterity. The general Taste of: he Nation has ennobled

⁽e) Perrault's hommes illustres.

ennobled this Art. Prejudices are vanish'd and lost, Indolence and Idleness does not now always accompany great Birth; for the French Nobility begin to handle the Graver (f). Such an Example will certainly raise a great Emulation amongst our common Artificers; for it was from this Motive that Painting was both improv'd, and its Masters multiply'd; which gives us also grounds to hope, that some rare Pieces or Curiosities, which now lie hid in Chests, may, sometime or other be published, and seen in many Places.

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PRINTING.

SUCH is the Nature of Engraving, that Printing, by which the Sciences are so much advanced, may be said to have been invented long before it was commonly said to have been, and the true Use of it known. I chuse rather to be silent about the first Inventor, than to run the Hazard of a salse or frivolous Conjecture (g). It is pretended, that the Chinese had made this Discovery long before the Europeans. This Opinion is not certain; and, besides, since the Time it was made known to us, we have brought the Art to that Persection, that the Merit of the Invention cannot justly be refus'd us.

The Progress of Printing has not been flow; for the Discovery was only made in the 15th Cen-

(g) Polyd. Virgil de Invent. Rer. lib. 2. Cap 7.

⁽f) M. le Marquis de Cailus engraves himself. Mde St. Maurice, an Officer of the King's Guards, engraves also.

Famous Printers. tury, and the next Century faw it in all its Beauty; fince that Time, most polite Nations have cultivated it with Success. There were feveral of the old Printers learned Men. well vers'd in the Languages and Belles Lettres, who for fixfcore Years gave very exact Editions: As, at Paris, the two Stephanus's, Vafcolan, and Morel; at Lyons, the Gryphii; at Bale, Operinus and Frobenius; at Venice, the Aldi Manucii; at Antwerp, Plantin. At prefent, the Royal Printing-house at Paris maintains this Art in a Degree of Perfection, from which it begins to decline, almost every where elfe. Sordid Gain makes a Multiplicity of Editions, oft-times prefer'd to the Beauty and Exactness of Impression.

Knowledge of Books.

From Printing, it is natural to preceed to the Knowledge of Books and Authors; for Printing, by multiplying Books infinitely, has made the Choice of 'em very difficult: This mov'd several learned Men to offer their Asfistance, as Guides and Directors to others; and they call'd the Books they wrote for this Purpose, Bibliotheques. Rapbael de Volterre, as fome think, is the first who pretended to be a Guide in this Way, by his Anthropology, which is a Part of his Commentaries, printat Paris 1515; but it is a poor starv'd Work, and can recommend its Author for nothing else but his good Intention. This Design was much better executed afterwards by Conradus His universal Library contains a short Account of the Lives of the Writers; the Titles of their Works; the Opinion the Learned have of them; and some Passages, as Samples of their Style. It was upon this Plan that Conrad Lycosthenes, Robert Constantine, Josias Simlerus, and Joannes Frisius wrote WE

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afterwards. The Attempts of the first two were not successful. The Epitomes of Irisius and Simlerus were more savourably receiv'd. After these Authors, Antony Verdier and la Croix du Maine made a pretty good Supplement to the Bibliotheque of Gesnerus. John Hallerwood is not so exact. As for Ciaconius, he he might possibly be preser'd to the most part of those who were before, or have come after him, was it not for the Erudition he shows without good Criticism. What can be said of an Author, that makes St. Jerome a Cardinal; and who attempts to prove that the Soul of Trajan was brought out of Hell by the Prayers of St. Gregory (b)?

I chuse to omit several other Library Writers. The Catalogues of the Books of the President Theuanus, and of M. Le Tellier Archbishop of Rheims, would be very useful, if they were any thing else but simple Catalogues. There begins to appear a Catalogue, done by a good Hand, which will make all others neglected, and save the Trouble of a great many Enquiries (i).

(b) Pref. of M. Camuzat on the Biblioth. of Alf. Ciaconius.

(i) Catalogue of the King of France's Library.

AUTHORS of the HIST ORY of LEARNING.

TAVING taken a curfory View of the Origin, Progress, Decline and Re-establishment of every one of the Arts and Sciences in particular, it remains now to take Notice of the most remarkably approved Authors of the History of Learning; that the Youth, Order of who have not enter'd on this Sort of Study, may know who to have Recourse to, and also observe some Order in their Reading.

Reading.

rians.

If you are resolved to take this History in Detail, after you have read what Suetonius and M. Baillet have written concerning the Grammarians, you may peruse the Little we have of the Lives of those who have distinguished themselves by the Study of the Belles Lettres. M. de Peirese, one of the most il-Gramma lustrious for this Kind of Learning, deferves a Gassendi for his Historian. N. Chorien, desirous of doing Honour to Dauphiny, his Native Country, has written the Life of Pierre de Boissat, a Member of the French Academy (k).

For the History of Poefy, one ought to read the Lives of the Greek and Latin Poets, by Vossius; Giraldi, of the Poets of his own Time; the Judgment of the Learned concerning the Poets, by Baillet. The Lives which are prefix'd to the best Editions, to the French Translations of every Poet, in-

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⁽k) Printed at Grenoble, 1680.

form us of many things which are not to be found in Vossius, whether these Lives are given us by the Ancients, or come from a Modern Hand. We have the Life of Tasso by Abbé Decharnes; and that of Malherbe by Racan his Disciple.

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Cicero, in the Book call'd Brutus, and Grators. Quintilian in the first chap. of the 10th Book of his Institutions, give Account of the ancient Orators, and their different Characters. M. Gibert treats of the ancient Rhetoricians.

Jean Henri Boecl r, and Gerardus Voffius Historigive Account of all the Greek and Latin Hif- ans. torians. Martin Zeiller joins the Chronologists and Chorographists to the Historians; and M. Baillet tells what we ought to think of Historical Criticks. Mr. Dupin undertook a great historical Work; but he carried his Bibliotheque Universelle no farther than to Dioderus Siculus: After these one may read at his Leithe Lives of some particular Historians, as of Father Paul, for Example; of Peter de Puy, by Nicolas Rigault: But I dare not advise the Reading of that unfaithful History of Eudes de Mezeray, publish'd in Holland. A Writer like Mezeray, who was fo great a Lover of Truth, deferv'd a more impartial Historian.

After the History of Philosophy by Geergius Philoso-Hornius, the Lives of the Philosophers by Phers. Diogenes Laertius and Eunapius may be read; as also the Abridgment, which goes under the Name of the Archbishop of Cambray. If you defire to extend your Reading a little farther, with regard to the Philosophers, you may read the Lives of the two Chiefs of Philosophy, Pythagoras and Socrates. The Life

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of Pythagoras is written in Greek by Porpyhry, and in French, by M. Dacier: The first is accompanied with the Observations of Lucas Holstenius, and with a Dissertation of that same able Critick on the Life and Writings

of Porphyry.

Socretes has also two Historians, the one an Ancient, the other a Modern, Xenophon and Charpentier. Gassendi has written the Lives of Epicurus and Tycho-Brahe, and M. Baillet has written the Life of Descartes. M. de Launoy has written the History of the different Treatments Aristotle met with in the Univerfity of Paris, and of the Opinions about his Doctrine. Melchior Adam writes only of the German Philosophers, and M. Menage of the Women who dabbl'd in Philosophy. Mess. Le Clerc and Friend have written the History of Medicine, and Olaus Borrichius that of Chymie, the Antiquity of which he maintains against Conringius. Melchior Adam has also written the Lives of the Physicians and Theologues of his own Country.

Ecclesia.
flick Authors.

Antony Possevin a Jesuit, in his sacred Apparatus, gives us the Names and the History of all the Ecclesiastical Authors, with a Catalogue of their Works. M. du Pin, who liv'd in a more learned Age, gives us, in his Bibliotheque, the History of those Writers in a more exact Order; but, as it is not easy to keep free of Mistakes in a Work of that Length, the Remarks of P. Petit Didier ought to be read along with him. It is upon much the same Plan R. P. Ceillier, a Benedictin of the Congregation of St. Vanne, has undertaken the general History of the Sacred and Ecclesiastick Authors, of which he has only published as yet the first three Volumes, which

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Stampelius and M. de Launoy have succes-Famous sively written two Histories of the famous Schools. Schools of Europe. The sound and just Criticism of de Launoy will make every judicious Reader prefer him to his Competitor. This French Doctor has also written a particular History of the Royal College of Navarre; in which he gives the Lives, and a Catalogue of 134 Authors of this Society.

We have the Lives of some Theologues Divines, published by themselves; as, the Life of Cardinal Bellarmine, by the Fathers Fuligalli and Frison, Jesuites; and of M. Arnaud Doctor of the Sorbonne, of P. Mabillon, of M. Nicole, and of some others: But if you read the Life of Father Morin of the Oratory, you'll do well to be on your Guard against the peevish Humour and bitter Style of M. Simon, who is thought to be the Author of it.

The Ecclefiastick Law, the Roman Law, Law. and the French Law have their particular Historians, who are well enough known.

Vossius has written the History of the Ma-Arts. thematicians; Boxbernius and Mallinskrett that of the Printers; Mess. Felibien and Despiles, Vasari and Carlo Dati, have written the Lives of the Painters, Sculptors and Architects: but Vasari, too much prejudiced in Favour of his Country, extols the Italians oft-times at the Expence of Truth. Felibien makes Poussin his Hero. Despiles is so much taken with the Merit of Rubens, that he exceeds in his Complaisance to him. He chose to write his Life preferably to all other Strangers; a Distinction and Compliment which Pierre Mignard

nard had paid him fome Years fince among our French Painters.

The History of these fine Arts, which has been written so often, is not at all quite exhausted. M. le Abbé Pascoli of Perouse, has undertaken it of late; and the first Volume, which is already published, gives Reason to believe it will be an excellent Work when finished. The same may be said of M. Le Roy; the best Judges are pleased with what he has done already, and are pre-disposed in favour of his History of the Goldsmith's Art, which the Republick of Letters expects impatiently.

History of in general.

Hitherto we have spoken of those Authors Learning only, who have confin'd themselves to one Art: Others have written of the Authors in all the Sciences, but after different Methods. Sometimes the Authors are ranged by their Nations; fometimes they appear in a Chronological Order. Sometimes it is the History of learned Societies; fometimes it comprehends many Ages; fometimes a certain numher of Years only. Some write simple Memoirs; others make Eloges. This Variety is agreeable and useful too. Good Actors, who appear on a Stage under different Masks and Dreffes, are always fure to please and instruct. Take a few Examples of the different Methods, without minding an exact Order, but as they offer themselves to our Memory.

Ant. Sanderus compos'd the History of the most famous Writers of Bruges, of Ghent, and of all Flanders. Valerius Andreas, in his Bibliotheque of the Low Countries, gives the History of the Learning of these Provinces. vola de St. Marthe and Charles Perrault compos'd the Eloge of the illustrious Men who

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have flourish'd in France. The Benedictins have begun to give the Literary History of the Gauls. P. de Colonia, a Jesuit, has written the History of the Learned in the Lyonnois. The great Works which are in the Press will eternize the Memory of the learned Men of Languedoc and Provence. The learned Spaniards are recorded in the Spanish Bibliotheque of Nicolas Antonias. Leon Allatius, in his Apes Urbanæ, gives a Catalogue of the Authors who flourish'd at Rome from the Year 1600 to 1632, and of the Works which they published.

Polydore Virgil treats of the Origin of Arts and their Inventors. Vincent Placeius gives an Account of the anonymous Authors, and discovers the Plagiaries. Adrian Baillet produces the difguifed Authors, and Children who were famous for their Studies. M. Huet, the ancient Bishop of Avranches, writes the History of the Translators. Simon Paulus writes a Literary History. Cave confines himself to the Lives of the Ecclefiaftical Writers. Pere Niceron the Barnabite, has given us already 34 Volumes of Memoirs, curious and useful, of the History of Men that were illustrious in the Republick of Letters. The Learned of all Countries have Paulus Fovius, Thuanus and some others, not forgeting Lorenzo Crasso, nor Girolame Ghillini, for their Panegyrists.

The Writers of any Note who have appeared among the religious Orders, are recorded by their own Historians. Charles de Visch has collected a Catalogue of the Writers of the Order of Citeaux. Theodore Petreius has made one of the Carthusians, Peter Luccius of the Carmelites; John Rivius and Philip Elsius have spoken of the Writers of the

AUTHORS of the

Order of the Hermits of St. Augustine: Leander Albertus has given us an Account of the illustrious Men among the Dominicans: But his Book is little esteemed, since the Fathers Echard and Questis have published their History of the Writers of this Order, in two Volumes Folio. Lastly, the Fathers Ribadeneira, Alegambia and Sotuel, Jesuits, have successfully collected with great Care and Diligence all the great Actions and Writers of their Society.

Some have endeavoured in one History and Criticism, to comprehend all the Writers who have bore the same Name. However odd this Design may appear, it has been attempted by Leo Allatius in his History of the Georges and Simeons, in two separate Dissertations, where there are several Things very curious. This Man, who was Keeper of the Vatican Library, has made some other Collections of this Kind out of Methodius, Nicetas, Philous, Psellus, &c. M. Launoi has also written a Dissertation upon the Victorins.

The History of the different Academies, tory of A-which have been established within these cademies. hundred Years, makes up a particular Branch of Learning, and shews us how the Arts have by that Means been advanced.

M. Pellison has given us the History of the French Academy, from its Foundation to the Year 1652. It has fince been continued by the Abbot Olivet, a Man truly worthy to share the Praises of that illustrious Writer.

M. de Boze has written the History of the Academy of Inscriptions and Belles Lettres. In it we meet with more than a simple Narration

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ration of Facts; he has display'd the Erudition of the Academicians in all its Splendor, and has either transcribed or extracted many Pieces of fine Learning.

The History of the Academy of Sciences was begun by Mr. Du Hamel, and continued by M. Fontenelle. In it we see and reap the Profit of the Labours of that learned Body: Here also we may see the fine Discoveries which they have been making for almost an Age backward, and learn many useful Lessons both in Physic and Mathematics.

After perufing these, we may read the Acts of Leipsick, the History of the Royal Society of London by Bishop Sprat, the Philosophical Transactions, the Journal of the Learned, News from the Republick of Letters, the Memoirs for a History of Sciences and fine Arts, commonly call'd the Journals of Trevoux.

Thus we see that this is a Study of a very large Extent; and he that will sit down to read all that has been written on these Subjects, will be in Danger of neglecting others of greater Importance. Let every one make his own Choice according to his Taste or Situation.

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AGRICULTURE and GARDENING.

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A N, before the Fall, was happy in the peaceful Enjoyment of all the Fruits of the Earth, which were provided for his Use alone(a): after that, he found all Nature changed with regard to himself, and was obliged to conquer the Inclemency of the Seasons, the Barrenness of the Earth, and the Untowardness of the Beafts (b). But tho' what was at first intended for his Happiness became his Punishment, God in condemning him to fevere and hard Labour left him fome Remains of Knowledge, in the Midst of that profound Ignorance which was the Punishment of his Crime. By means of this Knowledge, and the repeated Experiments he made, he learned by Degrees to diftinguish Times and Seasons for Sowing and Reaping, and to give the necessary Culture to the Earth, and to tame the wild Beafts.

Adam instructed his Children in this Art by his Example as well as by Precepts. Cain apply'd himself to Husbandry; Abel led the Life of a Shepherd, and contented himself

with feeding his (c) Flocks.

Before the The first Colonies that were settled before the Deluge, and they that came after it, carried the Art of Husbandry along with them where-ever they went: nevertheless this Art (which like all others was very simple at first) was long before it arrived to any Degree of Persection. Tubal Cain was the first who wrought

(a) Gen. chap. 2. v. 8. and 15. (b) Gen. chap. 3. v. 17. and 18.

(c) Gen. chap. 4. v. 2.

wrought in Iron (q): after that, it was easy to apply the Invention of this new Trade to Agriculture. Noah (r) first planted Vines, and After the his Children continued to do so in all the Countries where they settled.

The Israe-

Abraham and the rest of the Patriarchs, lites. who looked upon themselves as Travellers and Strangers on the Earth, had no fixed Residence, and therefore apply'd themselves to a pastoral Life; thus ennobling a Profession, which being practised only by the meaner fort in those latter Days, has for many Ages lost its original Dignity. But after their Descendants were fixed in Palestine, they all became Husbandmen, and from the Chief of the Tribe of Juda, until the last Branch of the Family of Benjamin, they were all Husbandmen. Birth at that Time made no Distinction, and Agriculture was an honourable Employment.

Gideon was threshing of his Corn himself, when the Angel told him that he should be the Deliverer of his People (s). Saul was driving a couple of Oxen, tho' he was King, when he received the News of the Danger the Town of Jabez was in(t). The Ifraelites did not neglect their pastoral Art when they followed Husbandry; for David was keeping of his Sheep when Samuel fent in quest of him in Order to anoint him King (u). Besides, the Levites had no other Estate but their Flocks. As they were in a particular Manner set apart for the Worship of God, they were obliged to lay aside temporal Concerns; and therefore they were not comprehended in the Division of the Lands among the other Tribes.

Moreover

(9) Gen. chap. 4, v. 22.

(r) Ibid. v. 22.

⁽¹⁾ Jud. chap. 64 v. 11. (1) Kings B. 1. c. 14.

⁽⁴⁾ Ibid. c. 16. v. 11.

Moreover, the pastoral Life was always esteemed among the Israelites the most Innocent and most Perfect. For in the most corrupt Ages, the Rechabites abandoned their Possessions, and lived in Tents, folely employ'd about the feeding of their Cattle, and followed this Course of Life for the Space of 180 Years, even unadd

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The Jews, after their Return, retained the fame Taste they had always for a Country Life; and notwithstanding those Revolutions, which fuccessively brought them under Subjection to different Masters, they were Shepherds and Husbandmen. Under the Maccabees, every one, fays the Scripture (x), labour'd his own Land; and during the Time that they were under the Romans, we see in the Gospel the most part of the Parables taken from a rural Life, a Sower (y), a Vine (z), the good Tree (a), the good Shepherd (b).

Gardening was not unknown to the Hebrews; but the Simplicity of their Manners was the Reason that they had nothing magnificent or

luxurious in their Gardens.

Solomon made Enclosures, in which he planted all forts of Fruit-Trees (c) and aromatic Herbs (d); and he tells us himself, that he had caused to be made feveral Refervoirs of Water. But it is plain, that fuch great Pieces of Water could not be had in a Country fo dry as Palestine, without cutting Canals in the Rock, opening the Mountains, and raising Aqueducts: He adds,

(x) Mac. chap. 45.

⁽y) Luke chap. 8. v. 4.

⁽z) Mat. chap. 20. v. 1.

⁽a) Mat. chap. 7. v. 17.

⁽b) John chap. 10. v. 11.

⁽c) Ecclef. chap. 2. v. 5. and 6.

adds, that he was less follicitous about embellishing his Gardens, than about watering his young Plants. Among the Israelites and other Eastern Nations, there was neither Water-Works, nor other Contrivance of Art, which by forcing Nature is only intended to render the favourite Place more delightful.

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The Chaldeans, far from imitating this Moderation of the Israelites, carried Gardening to the utmost Refinement. They were naturally vain; an Empire of so vast an Extent gratisted their Pride and Luxury, so that they were not easily kept within Bounds; for not content with what was really good, they aimed always at the Marvellous and Extravagant, and the Manners of the People were seen and display'd in all their Works.

Nothing is more furprifing than the hanging Gardens of Babylon. Amytis the Wife of Nebuchadnezzar loved the Hills and Forests of Media; but could find none like them in the smooth and level Country of Babylon. In order to please her Taste, Nebuchadnezzar ordered Gardens to be raifed in the Palace as high as those Mountains, which formed an exact Square of 600 Feet in Circumference. Those he divided into several large Terrasses, rifing in Form of an Amphitheatre two hundred Cubits high. The Afcent from one Terrass to the other, was by a Stair ten Feet This stupendous Edifice was supported by feveral large Vaults one above another, and was furrounded by a Wall of two and twenty Feet in Breadth. Part of the River Euphrates was raised by Means of a large Pump to the highest Terrass, in Order to water the Gardens (o).

The

(2) See Prideaux's Hift. of the Jews, vol. 1. and Rollin's Ancient Hift. B. 8 chap 1.

The Chaldeans, who inhabited the Country where Agriculture took its first rise, brought that profitable Art to Perfection. Herodotus, who liv'd in the most distant Times of Antiquity, tells us (p), that the Babylonish Soil yielded a Return of two or three hundred Grains.

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Perfians.

The *Persian* Kings were also very careful to cultivate the Art of Husbandry: For that reason, they frequently either took a Tour thro' all the Provinces themselves, or sent Inspectors in their stead. The Nobility follow'd the Example of their Sovereign: For he always bestow'd his Favours on those, whose Provinces were best cultivated (q).

The Perfians had a better Taste of Gardening than the Chaldeans. Cyrus's Garden at (r) Sardis is celebrated in History. Lysander admir'd the Fineness of the Walks, the Disposition of the Trees, and the Regularity of the (s) Quincunx which they form'd: But when he heard that Cyrus had drawn all the Figures, and planted the greatest Part of the Trees with his own Hand, he cry'd out (t), How justly art thou, O Cyrus, esteemed the happiest Prince in the World; for thy Virtue is equal to thy Fortune!

Lydians.

Nature and Art strove to out-do each other, in adorning the Gardens of Tissaphernes, Governor of Lydia and Ionia, under Darius

(p) See the First Book of his History.

(q) See Xenophon's Oeconom.
(r) A City of Lydia near Mount Tmolu,

(1) See Xenophon's Oecon. and Cicero de Senect.cap.171

⁽s) Quincunx is when Trees are planted V thus, or X thus; and is a Method much commended by Virgil in his Georgics, and by Quintilian.

One of these Gardens sur-Darius Nothus. pass'd all the others in Beauty, by the Abundance of Water, the Coolness of its Groves, and the Beauty of its Grotto's and Arbours. This Tiffaphernes is call'd Alcibiades. Nothing, in my Opinion, is a stronger Proof of the Merit of this illustrious Athenian, than the Taste he shew'd in laying out these magnisicent Gardens.

The Egyptians attributed the Invention of Egyptians. Agriculture to their Osiris (u). It is certain, that this People are descended from Ham the Son of Noah, by Mizraim; and it is therefore probable, that Ham is Ofiris: For we all know, that in those early Times it was ufual to deify the Inventors of Arts.

The Egyptians push'd their Superstition so far, as even to adore those Animals which labour'd the Ground: An evident Proof of their Blindness, and of the Regard they had for

Agriculture.

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The great Riches of this Country confisted chiefly in Corn. Rome and Constantinople, the two greatest Cities in the World, could not have subsisted, if they had not receiv'd fre-

quent Supplies from Egypt.

The Phanicians, who are so well known Phaniciin the Sacred Scriptures by the Name of ans. Philistines, were also famous for their Skill in Ifraelites Agriculture; infomuch that the were forced to go to sharpen their labouring Utenfils among 'em. But (x) finding themfelves too much confin'd in that Country, by reason of the Conquests of the Israelites, they spread through the greatest Part of the

⁽u) Diodorus, B. 1. See. 1.

⁽x) 1 King, c. 13. v. 14.

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Islands of the Mediterranean, and carried the Knowledge of Husbandry along with them. Vines were planted and fucceeded to Admiration in the Islands of the Archipelago, but chiefly in Chios, Tenedos and Mytelene, where their Wine was excellent.

The most famous Colony of the Phanicians was Carthage, a State fettled by Queen Dido 888 Years before Christ, and (u) one hundred and thirty five before the Foundation of Rome. It is not certain, however, whether that Princess really founded the City of Carthage, or

if she only augmented and fortified it.

The Carthaginians followed the Taste of their Ancestors, and fell to study Agriculture in good Earnest. Their great General Mago wrote no less than twenty-eight Books on that Subject, which, according to Collumella (x), were translated into Latin by an express Decree of the Senate. If we may believe Servius, Virgil made use of these Books as a Model when he wrote his Georgics.

The Sicilians.

The Ancients (y) tell us, that the Goddess Ceres was born in Sicily, where she invented the Use of Corn and the Tillage of the Land. The Meaning of this Fable is not at all ambiguous; that Island was fruitful of Corn, and Agriculture was effeemed fo honourable an Employment, that even their Kings did not disdain the Practice thereof. Gelon (z) the Tyrant of Syracuse, thought fit to encourage the Husbandmen by his own Presence, and Hiero his Successor follow'd his Example.

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(x) Book 1.

(y) Cic. Verr. de Signis.

⁽u) See Bousset's Universal Hist. Part 1.

⁽x) He lived about four hundred and eighty four Years before Christ.

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The fine Pastures and large Vineyards of Sicily are celebrated by many ancient Historians; particularly, the Cellars of Gellius the Argentine, which were hewn out of a Rock, and furnished with three hundred Tuns of Wine, each of which contained one hundred Amphoras, or ten Hogsheads of the Measure of Paris.

After this we need not be furprized at the Riches and Magnificence of those Sicilian Husbandmen, who were serv'd in Gold and Silver Plate engraved; and had their Houses adorned with Statues of very great Value (a).

Time, which at first gave Birth to Arts, The made them also to be forgotten, when they removed from the Place of their Origin. The Children of Noah, who settled in Europe, undoubtedly carried along with them the Knowledge of Agriculture; but their Descendants, who took Possession of Greece, were such a savage Race, that they sed upon Herbs after the Manner of Beasts (b). Pelasgus (c) taught them the Culture of the Acorn, for which Divine Honours were paid him.

The Athenians, who were the first that received any Tincture of Politeness, taught the Use of Corn to the rest of Greece; they also shewed them how to give (d) the necessary Culture to the Land, in order to prepare it for the Seed. The Greeks soon found that the Use of Bread was more wholsome and more delicate than Acorns, and thank'd the Gods for such an useful Present. Ceres, in particu-

lar,

⁽a) See Cic. Verr. de Signis.

⁽b) Pausanias, B. 1.
(c) See Justin, B. 2.

⁽d) Justin, B. 2.

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lar, they held to be the Protectress of Corn; and in order to shew their Gratitude to that Goddess, instituted those Ceremonies and Mysteries so famous throughout Pagan Antiquity (e). Triptolemus applied himself to the Culture of Corn; and the great Quantity of Grain which that Prince exported to Sicily, and the Pains he took to teach the Sicilians the Art of Husbandry, made them believe he was inspired by the Goddess Ceres, to whom they thought they ow'd their Plenty.

Policy was afterwards joined to the Ties of Religion. The Athenian Kings thinking it more glorious to govern a small State wifely, than to aggrandize themselves by foreign Conquests, withdrew their Subjects from War, and employed them solely in cultivating the Earth. Thus constant Application brought Agriculture to Perfection; and then it was re-

duced into an Art.

Hestod, who is generally believed to have been cotemporary with Homer, was the first who wrote on this Subject. He calls his Poem (f) Work and Days, because Agriculture requires an exact Observation of Times and Seasons.

As the Greeks had made some Progress in Astronomy, it helped them to determine the different Seasons of the Year (b): They reckoned the Spring from the Equinox, which happens when the Sun enters the first Degree of Aries, till the Rising of the Pleiades; the Summer, from the Rising of the Pleiades to the Rising of Arcturus; Autumn, from the Rising of Arcturus until the Setting of the Pleiades;

⁽e) Cic. Verr. de Signis.

⁽f) Espa nai nuegas. (g) Hippocrat. B. 3. de Diæta.

Pleiades; and Winter, from the Setting of the Pleiades to the Vernal Equinox.

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The Knowledge of Astronomy, which the Greeks had acquired, was afterwards the Occafion of their falling into very great Errors with regard to Husbandry; for Man is feldom content to keep within the strict Bounds of Truth. As they regulated their Year by the Course of the Moon, and their Seasons by that of the Stars, they believed that the Stars had good or bad Influences on fublunary Bodies. Hence proceeded those frivolous Obfervations concerning the different Appearances of the Moon, and their superstitious Diftinction of Days into lucky and unlucky. Thus Gardening was infected; for the Greeks did not neglect the important Business of cultivating their Ground.

Pisistratus (i) and Cimon were as much distinguished at Athens by the Magnificence of their Gardens, as by their civil and military Virtues. They even gave an unprecedented Instance of Disinterestedness, and which has never been imitated since: They laid open their Orchards to all the Citizens, and suffered them to pull as much Fruit as they pleased.

The Praises which Socrates bestows upon Agriculture, shews us clearly the Sentiments of the Athenians (the most polite People that ever were in the World) concerning Gardening; and that at a Time when their Republick was arrived at its greatest Lustre. Agriculture (says he) is an Employment worthy of the most bonourable Men, and most conformable to their Nature; it is the Foster-father of all Ages and Conditions; the Source of Health, Strength, Riches,

⁽i) Athenæus, B. 12.

Riches, and honest Pleasures: It is the Mistress of Temperance, Justice, Religion; and in one

Word, of all the Virtues.

Xenophon, in making Socrates speak so well of Husbandry, does nothing more than his Master, in an Art which undoubtedly is the most ancient and most profitable of any. This we learn from his Oeconomia, one of the best of his Pieces; and which Cicero translated into Latin when he was a young Man: But what is most surprising, is, that even towards the End of the Grecian Empire, when the Corruption of their Manners was very great, we find the General Philopæmen labouring his own Lands at the Head of his Servants, whenever he was not obliged to be at the Head of his Army.

It is true (for why should I dissemble) that this was not the general Tafte throughout Greece. The Cretans had their Lands laboured by Slaves, taken out of the Number of those Men whom Minos had subdued, and who paid them an annual Tribute. It is also true, that the Lacedemonians (faithful Imitators of the Cretans) made use of the Ilotes to cultivate their Lands. So remarkable an Opposition could proceed from nothing but the different Constitution of the Republics. Sparta, which breathed nothing but War, only aimed at getting Soldiers. The Athenians, whose Manners were more effeminate, and who were greater Lovers of Pleasure, aimed at nothing fo much as Laboures, Artificers, and Vineyards.

The first Grecian Colonies, which spread themselves in that Part of Italy called Great Greece, taught the Inhabitants the Art of

Hnsbandry;

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Husbandry; and the last Colonies, which came from Corinth in the Reign (k) of Numa, brought the Art to Perfection.

Agriculture was esteemed an honourable The Ro-Employment at Rome, in the earliest Times of mans. the Republic. The most illustrious Senators applied to Labouring, and had neither Splendor nor Majesty, except in their publick Appearances. After M. Curius had triumphed over King Pyrrhus and the Sabines and Samnites, he chose to end his Days in the Country. Quintus Cincinnatus was following the Plough when he was chosen Dictator. Regulus, who was General of the Roman Armies during the first Punic War, demanded leave of the Senate to go and cultivate his Lands, which had been

neglected in his Absence.

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'Tis true, that when the Romans became tainted with the Afiatick Luxury, they gradually left off the noble Simplicity of their Ancestors, and employed their Slaves in the feverer Labours of a Country Life. But tho' they did not drive the Plough themselves, even Men of Confular Dignity looked upon it as a Reward of their publick Services, when they obtained Leave to retire to the Country; and were equally respected when they were fupervising their Farms, as at the Head of the Legions, or in the Magistracy. Cato the Cenfor, that illustrious Roman General, Orator, Politician and Lawyer, after having govern'd Provinces, did not think it below him to write a large Treatife of Agriculture. This Work, (according to Servius) he dedicated to his own Son, and was the first Latin Treatise upon that Subject; an evident Proof that he intended

⁽k) Bousset's Univers. Hist. p. 1.

tended it more for Use than Ostentation. This Book is convey'd to us in all its Purity, in the same manner as Cato wrote it. An able Critic (1), who publish'd an Edition of it, cannot persuade himself that it is so: He thinks, that what is come to our hands under so great a Name, is only a dull Collection of ill-digested Fragments; among which, there are perhaps some written by no greater Man than the Abbreviator. Varro's Treatise upon the same Subject has less the Appearance of being supposititious: The Plan is very regular, and the Work embellish'd with all the Greek and Latin Erudition of the learned Author.

Cato has not forgot the Culture of the Vines: For in his time they were as common in *Italy*, as they were fcarce under *Romulus* and *Numa* (m). Even the Gauls, who were established along the Banks of the Po, cultivated the Fig-Tree and the Olive (n).

Virgil borrows the Language of the Muses, in order to embellish the Precepts which Hefied and Mago left concerning Husbandry. But Virgil's Poefy is fo beautiful, and his Georgics particularly are fuch a Master-piece, as must make every one despair of ever seeing any Performance like it. Tho' 'tis pity that he should have fully'd so perfect a Poem by so many childish Observations upon the good and bad Qualities of the Days of the Week, or of the Moon; and upon the Changes of the Air, which he boldly attributes to the Aspect of the Dog-Star, and the Rising and Setting of other Constellations. Vitruvius, Virgil's Cotemporary, and a great Architect, without

⁽¹⁾ John Matthias Gesner.

⁽m) Plin. Nat. Hift. B. 14. Sect. 14.

⁽n) Plut. in Camil.

without transgressing the Bounds of his Profession, gave Rules for the building of Stables, Wine-Presses, Cellars, Granaries, and Mills

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Thus Agriculture flourish'd under the Em-Julius Grecinus, the Father of Agricola, and who liv'd under Caius, wrote fome Things upon this fine Art (b). A little while after, Columella, a Native of Cadiz in Spain, compos'd his Twelve Books, which shew something of the Purity of Latin, and make a Body of tolerable good Precepts concerning Country-Labour. The two illustrious Brothers Quintilii, who were Confuls (c) together, publish'd some Books of Husbandry, of which we have only a few Fragments Albinus had written his Georgics, when he was declar'd Cæsar by Septimius Severus. The little we have left us of Gargilus Martialis, shews very well of what a fine Work the Injury of Time has robb'd This Remnant of his has for its Subject the Diseases of Oxen and Horses. He lived under Alexander Severus. Vegetius, who has left us Four Books upon the fame Subject, flourished under the Emperor Valentinian the Second.

The Arts are not much improv'd, but when they are agreeable to the Taste of the Prince: And it is certain, that most of the Emperors lov'd and encourag'd Husbandry. Adrian was much delighted with Antium (e), and he retired to Tivoli the two last Years of his Reign (f). Dioclesian, after he had

⁽a) Vitruv. lib. 6. cap. 9. (b) Lipf. Not. in Tacit.

⁽c) A. C 151.

⁽e) Philostr. Apol. vit. lib. 8. c. 8.

⁽f) Aurel. Vic.

abdicated the Government, passed the last nine Years of his Life at his Country-House near to Saloni: And when Maximus Hercules endeavour'd to persuade him to re-assume the Purple, "If you would observe (fays " he) these fine Pot-Herbs, which are the " Fruit of my own Industry and assiduous " Care, you would trouble me no more with " the Thoughts of Empire (g)."

Let us now proceed to Gardening. Though it was very long before the Romans applied to that Art, Lucullus was, it feems, the first who brought Cherry-Trees into Italy, having carried them from Cerasonte (b), a City of Pontus: And we are still uncertain at what time the Romans procured Citrons, Apricocks, The Greeks, by their Expeand Peaches. ditions into Persia, Armenia, and Media had learned the Culture of those Trees.

But, to return to the Romans: The Simplicity which we find in the Gardens of Augustus, shews us, that the Art was but lately introduced among them. Virgil (i) only describes it planted with Endive, Parsley, Roses, Cucumbers, Daffodils, Bears-foot, Ivy, and Myrrh. And in the Description of the Garden which he had at Tarentum, he only mentions Pot-Herbs; fuch as Cabbage, Vervein, or Holy Herb, Poppies, Bears-foot, or Brank-Urfine on account of the Bees, the Linden and Pine-Tree. This painful Gardener, fays he, had planted Elms, Pear and Plum-Trees in a Quincunx, not neglecting the Plane-Tree, which yields fo fine a Shade for Drinkers.

Horace

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⁽g) See Epict. Eutrop. &c. (b) Plutarch. in Lucul.

⁽i) Georg. 3. v. 12, 13, & infra.

AGRICULTURE, GARDENING.

Horace (k) complains, that the Fondness the Romans had for Gardening, had made them neglect the Culture of their Lands. The useless Plane, says he, is preferr'd to the Vine, and aromatick Herbs to the fruitful Olive. This Taste increas'd apace; and the Gardens became more regular under Domitian and Trajan. Pliny the Younger gives us a long Description of his Tuscan House, where, he says, he had Parterres of Box, Beds of Bearsfoot, a Walk in Form of a Circus, a Riding-House, or Hippodrome, and a Grass-Plot and Fountains.

From a Passage in Macrobius we may infer, that in latter Times the Romans improv'd very much in Gardening. Virgil knew only three forts of Pears, viz. his Crustumium, or Pearl-Pear; his Syrium, or Bergamot; and Volemum, or Bon Chrêtien. Macrobius enumerates two and thirty kinds, and speaks of three and twenty kinds of Apples; which surely were not all known

under the First Emperors.

After the Fall of the Western Empire, which was follow'd by that of the Ruin of all the Arts, that of Agriculure triumph'd (if I may so say) for some time, amidst the Ignorance of the Barbarians, who over ran Italy. Towards the Reign of Theodoric (1), Palladius render'd himself famous: For the most ancient Author, who mentions that Writer, is Cassidarus. He publish'd his Fourteen Books at Naples, the Style whereof, tho' plain, is not without Elegance. The Method of Palladius in handling this Sub-

(k) B. 2. Ode 15.

⁽¹⁾ Palladius, Rutilius, Taurus Æmilianus.

ject is clear and regular. First, he lays down some general Precepts; after that, he defcends to Particulars, and describes the proper Business for every Month in the Year.

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Ganls.

Among the Gauls, the City of Marfeilles, founded by the Phocians, was the Repository of Agriculture. It is probable, that this ancient Colony taught the Gauls the Art of cultivating Vines: At least it is certain, that there were some in the Gaulish Narbonne before the Conquest of it by Julius Cæsar. These Plantations, which had been prohibited by the Command of Domitian, spread farther under the Emperor Probus. After that, the Art of Hufbandry suffer'd a fatal Blow by the Incurfions of the Franks, and other barbarous Nations, who fought nothing but Pillage; and the Civil Wars, which follow'd the Death of Clovis, gave a mortal Wound to that Art. The Miseries of the Times soon chang'd the fruitful Fields into Forests, Meadows into Fens, Houses into Rubbish, and reduced the Country to that wasteful Condition, in which it was at the Beginning of the eighth Century. Charles the Great found a Cure for that Evil; and the Wisdom of that Prince had very happy Effects. But the Divisions which happen'd among his Children, the Ravages of the Normans, and the petty Wars which follow'd, confounded all things. At last, our Kings made the Sovereign Authority to be respected, and France began to change its Appearance, when the Religious Wars had almost thrown it into that Anarchy and Confusion, from which it had escap'd. It is therefore no wonder, that Agriculture made fo fmall a Progress among us; that all that we have complete in our Language guage on Country-Affairs, is confined to the miserable Productions of three (m) mean Writers, who have, without Distinction or Stile, collected all the Observations of the Farmers, and all their vulgar Errors.

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But tho' the French neglected the Art of Husbandry, they were very painful of Gar. dening. The Crusades, which were made in the twelfth and thirteenth Centuries, gave occasion to our Kings to import (n) several kinds of Fruit, formerly unknown in these Western Parts: The famous Admiral de Celigny pruned and dreffed his Trees with his own Hands, and was found in his Garden at that Imployment, by two Gentlemen, who were fent by Catharine of Medicis to fee what he was doing. But still this Art was but little advanced; nor did it arrive at its full Perfection, till the feventeenth Century. That laborious and learned Writer, M. Andilly, loved to amuse himself with Gardening at his vacant Hours: He fearched deep into the Nature of Trees, and joined Practice to Theory: He found out feveral Things which had escaped all that went before him on that Subject (0.)

About the same time, the celebrated Quintinian studied Gardening from such Authors as had treated of it: But he soon perceived, that the Ancients had made but small Progress in that Art. He travelled over all *Italy* as a Physician, and returned full fraught with many sine Observations. To prove the Truth of

⁽m) The Theatre of Agriculture, by Oliver de Serres; the Country-House, by Charles Stiven; and another Piece, by John Liebault.

⁽n) Such as Plums of Damas and St. Catharine, and several kinds of Raisins.

⁽o) Perrault's Lives of famous Men.

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which, he first began in M. Fomboneau's Garden. The late King was not infenfible of the Merit of Quintinian; and rewarded it, by making him Director-General of the Royal Palaces and Gardens. This industrious Man was no fooner put into his Office, but he made out the new Kitchen-Garden of Verfailles; and dividing that great Tract into thirty four smaller Gardens, gave to each of them the necessary Degree of Heat. Quintinius did more; he left an excellent (p) Work for the Instruction of Posterity. In it he explains that kind of Pruning and Grafting which he himself invented. He also destroys the superstitious Observance of the Revolulutions of the Moon; and teaches us to prune the Fibres of Trees when they are transplanted. Gardening is a Field, where one may always find fomething to be gather'd. A Recluse has, by enlarging upon Quintinius's Plan, taught us how to water a Garden in form of Rain falling: An Art very necessary in times of Drought, when the Ground cannot be fupply'd by watering with the Foot. He found the Method of transplanting Trees without the Earth or Clod about them, with all their Branches and Fibres, and to make Fruit the same Year. them bear are now certain, by feveral Experiments, that when the Sun shines obliquely upon a Row of Fruit-Trees, they will grow much quicker, than if it shone directly upon 'em. Geometry has also been applied to Gardening,

⁽p) Intituled, Instructions concerning Gardens, Fruit, and Pot-Herbs.

ing, by means of which, Walls have been

built floping to the Horizon.

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Thefe are all fine Contrivances: But we must confess, that it was referr'd to M. Nautre, to know better than any Person, whatever contributes to the Beauty of Gardens. Nothing does him greater Honour, than the fine manner in which he has laid out the Garden of the Tuilleries, where he has corrected the Irregularity of the Ground, by an Elegant, but Plain Method. If by the Squares and Lanes which he drew there, he has shown himself a good Geometrician, he has discoer'd himself to be a good Drawer, by the Justness and Elegance of the Walks, wherewith he has adorn'd a great Number of Houses of Pleasure. But it is chiefly at Verfailles that he has discover'd his great Talents. There we may at first fight distinguish the Groves (a) which he invented: They may all be known by that fine and delicate Character and Appearance he gave them; and yet we fee Nature throughout, in spite of all her Difguise.

The Spaniards have a compleat Treatife of Agriculture, which few of their Neighbours can boast of. It was undertaken by John Ferera, at the Command of Cardinal Ximenes. That able Writer has collected, and put into his Work, all the important Lessons and Observations of the Ancients and Moderns on that fine Art; together with several Observations which he himself had made during the Course of several Years, wherein he apply'd to

that Study (b).

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⁽a) The Labyrinth, Triumphal Arch, the Salle of Bal, &c. (b) See the History of Cardinal Ximenes, ty M. Marfolier.

English.

The English, who are naturally quick of Invention, and fond of Experiments, have treated Agriculture in the same manner as they have handled the Art of Physick. As they are exact in their natural Researches, they have follow'd her closely, and have made curious Observations on her Proceedings: They have also been careful to practise with wonderful Sagacity, what they had drawn from a Learned Theory.

Husbandry has been esteem'd an honourable Employment in China, ever since the Foundation of that vast Empire. The Chinese, always constant in their Maxims, have never chang'd their Behaviour, with regard to Agriculture; nor have ever lessen'd the Esteem they had for it, even under the Domination of

the Tartars.

The latest, and most faithful Historians inform us, that the Labourers are allow'd the first Rank in the Order of the People; and, in order to give his Subjects an high Idea of Husbandry, the Emperor goes annually on a certain Day, and draws some Furrows with a Plough; after which, he sows them with several sorts of Seeds (b).

(b) See Father du Halde's Hift. of China.

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HUNTING, FISHING.

MAN, having by his Sin forfeited the Empire which he held over the Beasts, was oblig'd to make use of all his Industry, in order to destroy such of them as were hurtful to him. This War against the wild Beasts was afterwards reduc'd to an Art. In the Fragment which Eulebius has preserv'd of Sanchoniathan, the Phanician Historian, he fixes that Epoch at the Sixth Generation from Adam; and the Perfection of Hunting at the Seventh, when Iron was invented. read in the Scripture (a) what kind of Arms was then employ'd against the Beasts. " Now " therefore (says Isaac to his Son Esau) take, " I pray thee, thy Weapons, thy Quiver and "thy Bow, and go out to the Field, and " take me Venison, such as I love." Passage shews us, that this Exercise was then an useful Shift to furnish their Tables. ter the Establishment of the Israelites in the Land of Canaan, they cultivated this Art, in order to preserve their Corn and Vines. Most of the figurative Expressions in the Sacred Writings are taken from Hunting. Nets and Traps are often spoken of in 'em: But Hunting with Dogs, &c. was not known among the Hebrews; for they did not fo much hunt for Pleasure as Necessity.

According to Sanchoniathan, Fishing is a very ancient Art: For he attributes the In-

⁽a) Gen. c. 27. v. 3.

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vention of it to the Sixth Generation, long before the Deluge. But, not to depend upon his Authority, the Scripture (b) tells us, that Noah and his Sons were allow'd to eat every Thing that had Life. On the other hand, a (c) celebrated Author feems to have fallen into an Error on the opposite Side, by confining Fishing too much to the Israelites; for their Neighbours, the Idumeans, were also careful to improve that Art. In the Days of Job, who was contemporary with the Patriarch fofeph. Whale-Fishing was very common at certain Seasons; nor were the People ignorant of the Use to which it might be apply'd. is not therefore probable, that the Tribe of Zebulon, who liv'd by the Sea-Coast, and whose Situation invited them to Fishing, would for fo long time neglect fo profitable an Exercife.

Chaldeans.

The Scripture (d) tells us, that Nimrod, the great Grand-son of Noah, who was the first King of Babylon, was a violent Hunter. That Prince had a political Reason for encouraging of Hunting; and his Design succeeded wonderfully. By this means he gain'd the Love of his Subjects, whom he deliver'd from the Attacks of wild Beasts: And in the Countries where he hunted, he found many well-disciplin'd Soldiers, who enabl'd him to enlarge the Bounds of his Kingdom. The Example of Nimrod was follow'd by his Successors; and the Drawings in the Palace of Babylon represented the Huntings of Ninus and Semiramis, against the Lions and Leopards.

(b) Gen. c. 9. v. 3.

(d) Gen. 10. v. 9.

⁽c) M. Fleury's Manners of the Ifraelices.

It is commonly thought, that the Manners of Princes are always copy'd by their Subjects. Thus it was with the Chaldeans; they delighted in Hunting, and were careful to cultivate that Exercise.

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The Perfians look'd upon Hunting to be a Perfians. very important Business, as it was an excellent Preparation for the Art of War. even employ'd their Arms this way, and had their Bows, Arrows, Swords, Axes, Pikes, and Shields made of Willow (b). The two Cyrus's were much delighted with Hunting; and the last of 'em had a Park fill'd with wild Beasts, at the City of Celenes in Phrygia. Artaxerxes Longimanus (i) had his Sons instructed in Hunting, by Masters of that Art. And the Kings of Parthia (k), who in Process of Time succeeded the Persian Kings in Power, came fometimes to hunt at Babylon, then a ruinous City, according to the Predictions of the Prophets, and which was of no other Use, but to be a Receptacle for wild Beafts (1).

The Egyptians, amidst all their Politeness, apply'd themselves to Hunting; and this was the most common Exercise of the Children which were educated after Sefostris. The Dexterity of Ptolemy Epiphanius in this Exercise is celebrated in History. His Embassador told the Acheans, that his Master had kill'd a wild Bull by one Stroke of a Shaft (m), and added, that they ought to think very highly of him upon that account.

Fifh-

⁽h) See Xenophon's Cyropædia.

⁽i) Xenophon. Retr. B. 1.

⁽k) Plato in Alcibiadem, 1.

⁽¹⁾ See St. Jerom on Ifaiah xiii.

⁽m) Polyb. Legat. Cap. 37.

Fishing was commonly practis'd in Egypt, for that on the Lake Maris sometimes yielded the Prince a Talent of Silver each Day. Some (n) Authors, however, are of opinion, that the Egyptians did not eat Fish: But that Part of (o) Herodotus, upon which this Opinion is founded, restrains the Prohibition to

the Priests only.

The Greeks, who attributed the Revelation of the Secrets of Agriculture to their false Gods, gave it the same Origin with that of Hunting. According to them, Apollo and Diana taught this Art to Chiron, the Son of Saturn and the Nymph Nais. Chiron had Cephalus, Escularius, Melanian, Nestor, Amphialus, Peleus, Telamon, Meleager, Thefeus, Hyppolitus, Palamedes, Ulysjes, Diomede, Cafor and Pollux, Machan, Podalirius, Antilochus, and Achilles. Cephalus, Amphiarus, Cafor and Pollux, were made immortal; the others did not furvive Chiron, who did not die until he had educated Achilles. After these Heroes had destroyed the wild Beasts which infested Greece, they next subdued the Tyrants who oppressed the Country, and made the Grecians superior to their Enemies.

The Lacedemonians, Warriors by Profession, cultivated with great Care an Art which favoured their ruling Passion. Their Trade was Hunting, and in it they exercised themselves constantly. This painful Exercise enured em to Toil, and gave them Strength to subdue their Neighbours, and to enlarge the Bounds of their Republic. The Spartans were not

born

⁽a) M. de Fleury.

⁽o) Book 2.

born for Learning; which is the reason they have left us no Treatife of Hunting. On the contrary, the Athenians neglected no kind of Literature; and their Philosophers did not difdain to write upon this Subject. Xenophon, the Disciple of Socrates, has finely described the Hunting of the Hare, the Stag, and the wild Boar (p). He speaks also of Dogs of Course. and of their different Kinds and Names. He describes the Snares, the Toils or Nets which the Hunters used, the Arms which they wore, and the Gins and poison'd Baits which they laid for the most favage Beasts; and all this at great length: So that we fee, he has been fully conversant in those Matters. Callifthenes. a learned Anatomist and Botanist, has written a Treatife on Hunting, which is commonly thought worthy of Aristotle and Alexander the Historian. Philopamen, who is called the last of the Greeks, because he was the last who supported their Liberty, frequently diverted himself with Hunting, when he was not obliged to be at the Head of an Army.

A great Wit (q), who had more Politeness than Learning, flatly denies that Hunting was practifed by People of Condition among the Romans. Did he not know, that the Second Scipio, the worthy Heir of Scipio the Great. who took and destroyed Carthage, was frequently pleased with the Exercise of Hunting? The Country of Macedon, where the Kings took frequently this Diversion, furnished him with an Opportunity to fatisfy his Inclination; and was the School where that Hero, by hunting down wild Beasts, learned to subdue the E-

nemies of his Country.

Hunting,

⁽p) See Xenophon of Hunting. (9) See Voiture's Letters, Numb. 125.

Hunting, fays Horace (p), is a noble Exercife: the Romans loved it, and thought it contributed to their Health, and even Repu-" Love it (fays he to Lollius), and tation. " when a rich Friend leads out his Hounds " and Horses for Hunting, go along with " him, to have the Pleasure of eating Venison " after it has cost you some Labour." In another Place (q) he describes one Gargilius, who order'd his Huntsmen and Servants to pass through the Fields early in the Morning, and to return as it had been in Triumph before his Face, followed by a Mule laden with a Wild Boar which he came to buy. In fo great Repute was Hunting in the Time of Augustus, that the Romans thought it was a Cure for Diseases, for which Reason they would at any Rate be efteem'd Hunters.

This Taste however did not encrease under the Successors of Augustus. Domicius Enobarbus Grandfather to Nero, exhibited Hunting-Matches in the Circus, and in all Quarters of the City (a). Even men of Learning did not disdain this Exercise. The younger Pliny (b), writing to Tacitus, boasts much of a Hunting, where they had catched three Boars. "You cannot believe, says he, how great Vivacity of Mind is acquired by the Exercise of the

"Body; not to fay that the Shades of Fo-"refts, and the Solitude and profound Silence

"which is required in Hunting, is very

" productive of happy Thoughts."

Hunting was the darling Diversion of most of the Emperors: it was the common Refresh-

ment

⁽p) B. 1. Ep. 18.

⁽q) B. r. Ep. 6.

⁽a) See Suetonius's Life of Nero.

⁽b) B. 1. Epistle 6.

ment of Trajan and Antoninus Pius; but Adrian, a lively and fierce Prince, and who knew no Medium either in Virtues or Vices, loved Dogs and Horses to such a Degree, that he erected Monuments and wrote Epitaphs upon them, and founded a City in Mysia, which he called Adrianotheres, i. e. Adrian's Chace, because he had kill'd a Bear with his own Hand night that Place.

Lucius Verus, the Collegue of Marcus Aurelius, gave into the fame Excess, and while the Parthians were ravaging all the East, he amused himself with Hunting on Horseback. Alexander Severus, Odenatus, who was made Augustus by Galienus, and Zenobia his Wife; the Emperor Tacitus, and some others, had a greater share of Moderation (c). Far from neglecting the Provinces which were exposed to the Barbarians, they inured themselves to the Toils of Hunting in order to be able to bear those of War; and the elder Maximin took no other way to establish Discipline among his Legions, than by frequently exercifing them in Hunting. In those Days, none but the Greeks had written on that Subject. Oppian of Anazarba in Cilicia, having followed his Father into the Mand of Malta, or, as some say, into that of Melita, where Septimius Severus was banished, there composed his Poem on Hunting, in Five Books, and Dedicated it to the Emperor Carcalla. Nemefianus, who lived under the Emperors Carus and Numerius, about the Year of Christ 284, and more than fixty fix Years after Oppian, was the first among the Romans who wrote on Hunting, part of whose Poem is still remaining. The

(c) Lamprid in Alexand. Trebel. Pol. Trig. Tyran. Hist. cap. 14

The younger Pliny (d) places Fishing among the Pleasures of the Country. And we know that the Romans were great Lovers of several Kinds of Fishes, as the Sturgeon, the Turbot, the Sea-Urchin, &c (e). Lucullus bored through Hills, and digged Ditches from Naples, in order to convey Part of the Sea into his Ponds. The Golden Palace of Nero (f) was surrounded with Fish-Ponds. Vitellius made a Feast (g) to his Brother the Emperor, where there were two thousand Fishes of exquisite Kinds; and Lampridius tells us, that Alexander Severus took sometimes the Diversion of Fishing.

Fishing has such a near Connection with Hunting, that the same Authors have written on both Arts. Oppian wrote a Poem on Fishing, towards the second Century; and so much was the Emperor Septimius Severus delighted with it, that he gave the Author a Piece of Gold for every Verse of his Poem, which made his Verses be called the Golden Verses (b). Nemesianus, who lived some time after him, wrote upon the same Subject, but with less Elegance; for fine Learning died at last in the

West with the Roman Empire.

The Gauls. Hunting was commonly practifed among the Gauls: in the Middle of every Village they had a Sacred Tree, where the Hunters hanged up Part of their Spoil, which they confecrated to their Goddess Arduina or Arduenna(i). From the Time of Julius Cæsar, the Germans, and particularly the Swiss, who are the most war-like

(d) B. 2. Ep. 8.

(g) Eutrop. B. 7.

⁽f) Suet. Life of Nero.

⁽b) Tillem. Hist. of the Emperors.
(i) De Perrin El. Hist. of Hunting.

like People of that Country, employed (k)

themselves chiefly in Hunting.

The French, a People originally descended from the Germans, having establish'd them-The French selves in Gaul, perfected an Exercise which was so agreeable to the natural Bent of the Country, and which the Romans had not neglected. They that are acquainted with the Antiquities of the French Nation, know, that those great Assemblies, which our King formerly held under the Name of Parliaments, always ended with Hunting. Asterwards, the prime Nobility claimed the sole Privilege of Hunting in their own Lands; and the Barons, who yielded Part of this Privilege to their Vassals, made them

pay a certain Rent for it annually.

When the French Language (which was not originally very susceptible of the Ornaments of Stile) came to be fully formed in the Process of several Ages, the Writers on Hunting began to encrease apace. Gaston Phabus Count de Foix, and Charles the IXth, King of France, drew their Quills to write on that Subject. John Franchiere, Guillau, Fardis, Artelouche, and some others, wrote of Falconry. But as Stag-Hunting was always preferred to the other Kinds, they made Deer-Hunting a great Art, and apply'd to the Practice of it with great Earnestness. It is true, that the Authors who have attempted to write on this Subject have not had equal Success. M. Fouillage is (they fay) confused and full of idle Words, nor has he gone to the bottom of his Subject. M. Salnoue has faid every thing, but it is without Method, for he has not observed the necessary Order and Arrangement of his Subjects. Sa-

(1) See Cæsar's Commen. B. 4. init. and B. 6. c. 2.

vary,

vary, who came after him, has reduced that Subject to a better Order, and in his 2500 Latin Verses has comprehended what Salnoue had fpun out so long as to tire the most patient Reader: Lastly, the Author of The Gifts of the Children of Latona has improved upon the Exactness of Savary, and in his Poem entitul'd Diana (1), or the Laws of Stag-Hunting, he has included all the Secrets of the Art in 500 French Verses. Yet the Brevity of this Work, however admirable, does not make up its whole Merit; with what Plainness, and yet Elegance, does this admirable Author explain the Age of the Stags, their Fewmets, their Foilings, their Traverses, their Lurking Holes, their Track, the Method of managing the Blood-Hound, the Disposition of the Fresh Dogs, and an hundred Things more, which feem to make a furprifing Contrast with the fine Poetry! Indeed it requires a great Degree of Justness and Elevation of Genius to aggrandife a Didactic Poem by an ingenious Fiction, and lively and natural Images.

⁽¹⁾ It is divided into Six Cantos: Printed at Paris, 1734.

The ART of RIDING.

THE Art of Riding a Horse was known among the Ifraelites under Solomon. That Prince kept 40,000 Horses, which he had caused to be brought from Egypt(m). But this Example, neglected by his Succeffors, who were weakened by the Divisions among the ten Tribes, was not followed by his Neighbours till long afterwards. Indeed the most ancient Epoch of Riding, among the Chaldeans, is no higher than the Reign of Ezechias King of Juda; at least, we have no Accounts of it in the Scripture before that Time, when we read (n) of the Assyrian Cavalry. Long after that, we read in the Persian Historians, that their Kings were taught the Art of Riding from the seventh to the fourteenth Year of their Age.

The Treranes and Gymmerians, a Northern People, had cultivated the Art of Riding during the Space of four or five hundred Years, and at last brought it into Ionia and Lydia, when they made their first Incursion into those Countries, a little before the Days of Homer, and 150 Years after the taking of Troy. About the time of Bellerophon, viz. thirteen or fourteen hundred Years before Christ, the Thessalians (says the (o) the Abbot Gedoyn) had acquired the Reputation of sine Horsemen, sighting on Horse-back against wild Bulls, whence they had the Sirname of Cen-

taurs.

⁽m) II. Chron. c. 9. v. 25.

⁽n) II. Chron. c. 18. v. 23.
(e) See the Memoirs of the Acad. of Belles Letters, vol. 3.

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Country, were remarkable for the Art of making Horse-bits and Caparisons, and for managing of Horses. Pelops, says he, introduced Horse-Races into the Olympic Games, which, after having long been in Desuetude, were not practised again until about one hundred Years after the Re-establishment of those Games by

Iphitus.

The Accounts we have of those fabulous Times, which preceded the Olympiads, and before there were any Histories, are not to be depended upon: it will therefore be a furer Method (after the Example of a learned (p) Academician) to fix the Epoch of Riding, with regard to that Part of Greece which is in Europe, to the first War of Messina, i. e. seven hundred and forty three Years before the Birth of Christ. It took its first rife in Macedonia, from thence it went into Thessaly, and from that into the Southern Parts of Greece: for Thessaly alone was sufficient to supply Greece with Horses, tho' they always degenerated. when carried into other Countries, for want of good Pasture. The Grecian Cavalry never made any Figure till the time of Agefilaus (q): but the Athenians were very careful to cultivate the Art of Riding, having Masters on purpose to teach Horsemanship (r).

The Hippiatric Art, or manner of managing Horses, was handled by many Grecian Writers. We have still the greatest Part

(p) M. Ferret, in his Enquiry into the Origin of Riding.

⁽q) Ibid. (r) See Plate.

of those Authors preserved in a Collection which was Translated into Latin by Ruellius, at the Command of Francis I. But nothing of this Kind is equal to the two beautiful Books of Xenophon, which their Translators have entituled, De re Equestri; and, De Magistri Equitum Officio. In the first of these, to warn young Gentlemen against the Tricks of Jockeys, he enumerates the different Parts and Shapes of a Horse: the Hoof, the Legs, the Hams, the Counter, the Buttock, and the manner of shoeing them. Afterwards he describes a War-Horse, without omitting the Led-Horse, whom he would have to be very fiery, but tractable and found. He also teaches a good Method of dreffing Horses, of bridling them, courfing them, and making them leap a Ditch; and concludes with a Description of the Armour of a Horseman, or Gentleman of the Sword. The fecond Treatife is only concerning the Courfing of Horses, where by the bye he shews what kind of Horses are most proper for the Field.

Riding was very early cultivated in *Italy*, tho' *Romulus* had no more than three thousand Foot, and 300 Horse in his Army. But if we except the few Hints that *Vegetius* has left us, none of the *Romans* (as far as I know) have writen any thing upon this Subject.

After the revival of Learning, Italy was long in Possession of the Art of Horsemanship; and it was in that Country alone where the Exercise of the Manage was to be learned to perfection. M. Pluvinel was the first Man who made the French equal to any of their Neighbours in the Art of Riding: and since his Time, People from all Nations in Europe come to us to be instructed. M. Soleysel, who

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came after him (who alone was worthy to educate the celebrated Mess. Memon and De Buade) finding that he could add nothing to the Precepts of M. Pluvinel, concerning the Armour of a Horse-Man, apply'd himself to the dresfing of Horses. He studied the Properties of that Creature, his Perfections, his Faults, his Diseases, and the Remedies for them, together with the different Methods of Breeding, Bridling and Managing them. He constantly practised the ancient Method for a long time: but having found out, that that of the Duke of Newcastel was shorter and more general, he practifed it during the last twenty or five and twenty Years of his Life (s). Great Men are exempted from low Jealousies, the Rock upon which so many Writers have split; unmindful of their own Glory, their only Aim is to instruct the Publick. What added so much to the Glory of M. Soleysel was his having formed fo many great Scholars. M. Vandeuil trod in his Steps, and M. De la Gueriniere, a Disciple of Vandeuil's, has shewn us (t) that the fine Art which he profest has lost nothing, but rather has perhaps gained fomething by the folid and clear Method with which he has treated it.

⁽s) See Perault's Lives of Illustrious Men, vol. 2.

Of the GYMNASTIC ART.

THIS Art, like most others I have mentioned, contributed very much to the Preservation of Health, the encrease of Strength, and the making of good Soldiers. The Antients took very great Care of their Bodies, which we neglect too much. Running on Foot was one of the principal Exercises among the Israelites (x), nor were they unacquainted with Wrestling even in the Days of the Patriarchs; this we see by Jacob's Wrestling with, the

Angel (y).

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Hercules, Castor and Pollux, Ajax and Ulysses, were the first Wrestlers in Greece. feus by a more studied Adress surpassed them all, and he it was who first settled publick Schools, which they called by the Name of Palestræ and Gymnasia. There they who were defigned for the Art of Wreftling, learned under different Masters to overthrow their Adversary by taking him by the Neck (2); to fight with Fifts (a); to throw a heavy Hammer or Javelin to a great distance (b); together with the Exercise of Running. But the principal Part of their Education confifted in a very severe Regimen. Every thing was regulated according to the Rules of the ftrictest Temperance; their Sleep, time of Eating, and Choice of Food, which in ancient Times was very

⁽x) II. Kings c. 18. v. 17.

⁽y) Gen. c. 32. v. 24.

⁽²⁾ Luctus.
(a) Pugilatio.
(b) Discus.

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very gross and coarse: Nuts, dried Figgs, Cheese and coarse Bread. The Wrestlers by this Kind of Diet, acquired a prodigious Strength; but, contrary to the Institution of their Art, they were neither fit for War, or any other Action that put them out of their ordinary way of living. Thus the Gymnastic Art served only for Ostentation. Sometimes indeed this Sobriety of theirs was succeeded by a prodigious Voracity; Milo the Crotonian could hardly be satisfied with twenty pound weight of Bread, as much Meat, and sisteen Pints of Wine a Day.

In the second Epistle to the Corinthians (c), St. Paul lays before them the Example of Wrestlers, who observe (saith he) an exact Temperance in all Things. They had therefore at that time recover'd their antient Fruga-

lity.

But about the same time they began to improve much upon the Magnificence of their Academies. Spacious and stately, Edifices were erected at great Expences: they were divided into three Parts, viz. a Peristyle, or Place encompassed with a Row of Columns in the infide; a Xystos, or Place planted with Trees; and a Stadium, which was a Walk of ninety Furlongs in length, confined on one Side by feveral Steps, which form'd a Theatre, long and bended at the two Ends (d). The Stadium was appointed for Agonistic Exercises; the Hippodrome for Chariot and Horse-Races. This was the Name that they gave to a Piece of Ground four Furlongs in length, and one in breadth,

⁽c) Chap. 9. v. 25. (d) Vitrius B. 5. c. 11.

breadth, which grew narrower on both fides at the farther End (e).

The Romans gave into a kind of Curiofity in this Art, which did little Honour to their Politeness. The two Brutus's taught them to take Pleasure in the most Barbarous of all Shews, viz. the Fighting of Gladiators. Charmed with this Novelty, the Romans reduced it to an Art, and improved it with all the Niceness and Delicacy they could. This Contagion from Rome, spread into Greece by the Means of Antiochus Epiphanes King of Syria; at length it was practifed all over the Roman Empire. Neither Marcus Aurelius nor the other fage Pagans were able to stop its Course; that Miracle was referved for the Christian Religion, and Constantine the Great at length put an End to the favage Practice. Afterwards Gymnastic Combats, which kept up the Worship of false, Gods, underwent the same Fate. In France they were fucceeded by Tournaments, and in Spain by Combats against Bulls. Our Ancestors however retain'd the Practice of Wreftling till towards the End of the Sixtenth Century, and to this Day in some Places we may observe Traces of Wrestling and Running (f).

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⁽e) See M. de la Barr's Dissertat. on the Hist. of the Acad.

⁽f) See M. Carperon's Reflexions on the Oddness of Customs. Andreas Vales Notitia Galliarum in voce Marcellacum.

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